Pioneer sound.vision.soul

Operation Manual

ENGLISH

DVD MULTIMEDIA AV NAVIGATION SERVER

AVIC-N4

Notice to all users:

This software requires that the navigation system be properly connected to your vehicle's parking brake. If not properly connected and depending on your vehicle, additional installation may be required. For more information, please contact your Authorized Pioneer Electronics retailer or call us at (800) 421-1404.

SUPER TUNER III D

The screens shown in the examples may differ from the actual screens.
The actual screens may be changed without notice for performance and function improvements.

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Table of Contents

Introduction

License Agreement 1
- PIONEER AVIC-N4 - for U.S.A. 1
- PIONEER AVIC-N4 - for Canada 2
- Terms and Conditions for the Tele Atlas Data 3

About the Data for the Map Database 4

Copyright 4

Table of Contents 5

Manual Overview 9
- How to use this manual 9
- Terminology 10
- About the definition of terminology 10

Important Safety Information 11

Notes Before Using the System and Additional Safety Information 12
- Failure to operate 12
- After-sales service for Pioneer products 12
- Visit Our Web site 12
- Precaution 12

Additional Safety Information 13
- To ensure safe driving 13
- Color difference of the map display between day and night 14
- When using a display connected to REAR OUT (VIDEO OUT) 14
- Purchasing software upgrade 14

Features 14

Playable Discs 17
- DVD-Video disc region numbers 18

What the Marks on DVDs Indicate 18

About WMA 18

About AAC 18

About DivX 18

About the SAT RADIO READY Logo 19

About the XM NAVTRAFFIC Logo 19

To Protect the LCD Panel and Screen 19

For Viewing LCD Comfortably 20

Resetting the Microprocessor 20
- About the data being deleted 20
- Reset the navigation system without changing the condition memory 20
- Reset the navigation system to the initial (factory) setting 20

DVD Map Discs for Your Navigation System 21
- Configuration of data recorded on discs 21

Initial Use 21

Chapter 1

Basic Operation

Navigation unit 23

Flow from Startup to Termination 24

Inserting/Ejecting a Disc 24
- Inserting a disc 24
- Ejecting a disc 24

Opening and Closing the LCD Panel 24

Setting the LCD panel 25
- Adjusting the LCD panel angle 25
- Setting the slide back function 25
- Setting the automatic open function 26

Protecting Your Product from Theft 26
- Removing the front panel 26
- Attaching the front panel 26

About NAVI MENU and AV MENU 27

Basic Navigation 28
- How to set your destination by address 29
- Memory navi mode 31

Basic AV Source 32
- Selecting an AV source 32
- Adjusting the volume 32
- Turning the source off 33
- How to listen to a CD 33
- Available buttons 34

Chapter 2

Navigation Menu and Map Display

How to Use Menu Screens 35
- NAVI MENU 35
- Shortcut menu 36

How to Use the Map 37
- Switching the current position screen display mode 37
- How to view the map of the current location 37
- Changing the scale of the map 40
- Moving the map to the location you want to see 40

Chapter 3

Setting a Route to Your Destination

Finding Your Destination by Selecting the Type of Facility 43
- Searching for Points of Interest (POI) 43
- Finding a POI in your surroundings 44
- Searching the facilities around the scroll cursor 44

Setting an Entrance or Exit of a Freeway as Your Destination 45

Searching for Your Destination by Specifying the Telephone Number 45

Route Calculation to Your Home Location or to Your Favorite Location 45

Selecting Destination from the Destination History and Address Book 45

Canceling the Route Guidance 46

Checking the Set Route 46

Checking the set route with the map 46
Checking the set route by text 47
Checking the entire route overview 47
Checking the set route from the shortcut menu 47
Recalculating the Route to Your Destination 48
Recalculating the route to the destination using the Route Options menu 48
Recalculating a specified distance in the route ahead of your current position 48
Editing Way Points to the Current Route 48
Editing a way point 48
Skipping a way point 49
Setting Areas to Avoid 49
Registering an area to avoid 49
Changing or deleting an area to avoid 50
Displaying Certain POI on the Map 50
Registering/deleting POI Shortcuts 51
Registering a POI shortcut 51
Deleting a POI shortcut 51
Modifying the Route Calculation Conditions 52
Items that users can operate 52
Perform the route calculation for several route options, and select one 53

Chapter 4
Editing the Navigation Utilities

Editing Registered Locations 55
Registering your home and your favorite location 55
Registering a previous location in the Address Book 56
Editing a location's information 56
Deleting Address Book or Destination History information 57
Changing the position of locations registered in the Address Book 58
Loading registered locations data from a Disc 58
Using XM NavTraffic Information 59
Viewing traffic list 59
Confirming traffic information on the map 60
Information on avoiding traffic congestion on route ahead 60
When checking traffic congestion information manually 61
Traffic flow information 61
Selecting traffic information to display 62
Using the XM Tuner to View Stock, Sports, and Other Information 63
Displaying stock prices 63
Storing browsable information 64
Displaying favorite browsable Information 64
Checking the Reception Status of the XM Tuner 65
Emergency Info 65
Checking the information registered as Emergency Info 65
Registering user information 66
Searching for car service in an emergency 66
Changing Background Picture 68
Setting the Vehicle Dynamics Display 69
Checking the Navigation Status 70
Checking sensor learning status and driving status 70
Checking the connections of leads and installation positions 70

Chapter 5
Customizing Your Navigation System

Modifying the Default Settings 73
Items Users can Change 73
Volume 73
System Options 74
Short-Cut Selection 74
Map Display Options 75
Defined Locations 76
Demo Mode 76
Time 76
Modify Current Location 77
Hardware Info 77
Restore Factory Settings 77

Chapter 6
Using the AV Source (Built-in DVD Drive and Radio)

How to Display each Menu 79
Operating the Built-in DVD drive 81
Switching the media files type 82
Touch key operation (DVD-V) 82
Operation using the Function menu (DVD-V) 83
Other functions (DVD-V) 83
Touch key operation (CD, ROM) 85
Operation using the Function menu (CD, ROM) 87
Touch key operation (DivX) 87
Operation using the Function menu (DivX) 88
Other functions (DivX) 89
Radio 90
Listening to the radio 90
Switching between the detail information display and the preset list display 91
Storing and recalling broadcast frequencies 91
Advanced radio operation 91
Storing the strongest broadcast frequencies 92
Tuning in strong signals 92

Chapter 7
Using the AV Source (Pioneer AV Equipment)

Multi-DVD Player 93
- Playing a disc 93
- Operations and Functions 93

USB 94
- Operating the USB portable audio player/USB memory 94
- Displaying text information 94
- Switching between the detail information display and the list display 94
- Viewing contents of upper folder 95
- Advanced USB operation 95
- Repeating play 95
- Playing tracks in a random order 95
- Scanning folders and tracks 95

XM Tuner 96
- Listening to XM Satellite Radio 96
- Switching the XM channel select mode 97
- Switching between the detailed information display and the preset list display 97
- Switching the XM display 97
- Storing and recalling broadcast stations 97
- Selecting a channel in the channel category 98
- Selecting a channel from the XM channel list display 98
- Selecting an XM channel directly 98
- Using the MyMix function 98
- Using the direct traffic announcement function 99
- Display the Radio ID 99
- Advanced XM tuner operation 99

SIRIUS Tuner 100
- Listening to SIRIUS 100
- Switching the SIRIUS channel select mode 101
- Switching between the detailed information display and the preset list display 101
- Storing and recalling broadcast stations 101
- Selecting a channel in the channel category 102
- Switching the display 102
- Selecting a SIRIUS channel directly 102
- Using the MyMix function 102
- Using the direct traffic announcement function 103
- Display the Radio ID 103
- Advanced SIRIUS tuner operation 103

Hands-free Phoning 105
- Hands-free phoning with cellular phones featuring Bluetooth technology 105
- About the telephone source standby mode 105
- Setting up for hands-free phoning 105
- Making a call by entering phone number 106
- Making a call from the history list 106
- Making a call from the preset dial list 107
- Calling a number in the phone book 107
- Making a call via voice recognition 108
- Taking a phone call 108
- Advanced hands-free phoning operation 109
- Connecting a cellular phone 109
- Registering your cellular phone 111
- Displaying BD (Bluetooth Device) address 111
- Disconnecting a cellular phone 111
- Deleting a registered phone 111
- Transferring the phone book 111
- Changing the phone book display order 112
- Editing the phone book 112
- Clearing memory 113
- Setting the automatic answering 114
- Setting the automatic rejecting 114
- Setting a ring tone 114
- Setting the automatic connection 114
- Echo canceling and noise reduction 114

iPod 115
- Operating iPod 115
- Touch key operation (MUSIC) 115
- Browsing for a song 115
- Performing random play with one touch 116
- Touch key operation (VIDEO) 116
- Advanced iPod operation 117
- Repeating play 117
- Shuffle play 117
- Wide Screen 117
- Turning on or off charging for the iPod 117

Bluetooth Audio 118
- Listening to songs on BT Audio (Bluetooth audio player) 118
- Pausing track playback 119
- Advanced BT-Audio operation 119
- Connecting a Bluetooth audio player 119
- Disconnecting a Bluetooth audio player 119
- Displaying BD (Bluetooth Device) address 119

External Unit 120
- Operating the external unit 120
- Operate the external unit by using 1 KEY — 6 KEY 120
- Operate the external unit by using F1 — F4 120
- Switching the automatic and manual function 120

AV Input (AV) 121
- Selecting AV as the source 121

Chapter 8
Customizing the AV Source Setting

Audio Adjustments 123
- Introduction to audio adjustments 123
- Using the equalizer 123
- Using balance adjustment 124
- Adjusting equalizer curves 124
- Setting the simulated sound stage 125
- Adjusting loudness 125
- Using subwoofer output 125
- Using non fading output 125

Using the high pass filter 126
Adjusting source levels 126
Setting Up the DVD/DivX Player 126
DVD/DivX Setup adjustments 126
Setting the language 126
Setting assist subtitles on or off 127
Setting angle icon display 127
Setting the aspect ratio 127
Setting the parental lock 127
Displaying your DivX® VOD registration code 128
Setting the Auto Play 128
Setting the Subtitle File 128
Initial Settings 128
Adjusting initial settings 128
Setting the rear output and subwoofer controller 129
Editing the PIN code 129
Switching the sound muting/attenuation 129
Switching the 5.1CH setting 130
Other Functions 130
Selecting the video for “Rear display” 130
Setup adjustments 131
Setting the video input 131
Setting for rear view camera 131
Switching the auto antenna setting 132
Setting the illumination color 132
Setting the screen color 132
Changing the Wide Screen Mode 132
Operating the Picture Adjustment 133
Switching the backlight On/Off 133
Language Code Chart for DVD 134

Appendix

Anti-theft function 135
Setting the password 135
Enter the password 135
Delete the password 135
If the password is forgotten 135
Installing the Program 136
Adjusting the Response Positions of the Touch Panels (Touch Panel Calibration) 137
Memory Navi Mode 138
Navigation in the memory navi mode 138
About the icon for the memory navi mode 139
Major restrictions during the memory navi mode 140
Cautions relating to auto reroute in memory navi mode 140
TRAFFIC icon during the memory navi mode 141
Operation outside the memorized area 141
Positioning Technology 141
Positioning by GPS 141
Positioning by dead reckoning 141
How do GPS and dead reckoning work together? 142
Handling Large Errors 143
When the positioning by GPS is impossible 143
Vehicles that Cannot Obtain Speed Pulse Data 143
Conditions Likely to Cause Noticeable Positioning Errors 143
About the Data being Deleted 145
Limitation of Functions for Areas not Stored on the Disc 146
Displaying the map 146
Destination search 146
Guidance 146
Route information 146
Other function limitations 146
Troubleshooting 148
Problems in the navigation screen 148
Problems in the AV screen (during DVD-Video playback) 150
Problems in the AV screen (during iPod playback) 152
Messages and how to react to them 152
Error Messages 157
Handling and Care of the Disc 158
DVD Map Discs 158
DVD drive and care 158
DVD-Video 158
DVD-R/-RW and CD-R/-RW 158
MP3, WMA and AAC files 159
DivX video files 160
DivX subtitle files 161
Ambient conditions for playing a disc 161
Using the Navigation System Correctly 161
Handling the LCD screen 161
Liquid crystal display (LCD) screen 162
Keeping the LCD screen in good condition 162
Small fluorescent tube 162
Route Setting Information 162
Route search specifications 162
Tracking 164
Types of the Road Stored in the Disc 164
Roads included in the route guidance and roads not included 164
Non routable roads (pink color road) 164
Glossary 165
Specifications 167
Display Information 169
NAVI MENU 169
Shortcut menu 172
Menu in the AV Screen 173
Sound menu 173
Initial menu 173
System menu 174
Function menu 175

Manual Overview

This manual provides the important information you need to make full use of your new navigation system.
Please note that when you have decided what you want to do, you can find the page you need from the "**Table of Contents**".
If you want to check the meaning of each item displayed on the screen, you will find the necessary page from the "**Display Information**" section at the end of the manual.

How to use this manual

For safety reasons, it is particularly important that you fully understand your navigation system before using it. Be sure to read the Introduction, Chapter 1 in particular.

1

Basic Operation

This chapter describes the names of each part of the navigation system and the basic operations of this navigation system.
It also describes basic operations for playing a CD in the navigation system.

2

Navigation Menu and Map Display

Describes how to display the navigation menu screen, and the method of changing map view or map scale.

3

Setting a Route to Your Destination

This section describes various ways of searching the destination, editing the current route conditions, and the route operation during route guidance.

4

Editing the Navigation Utilities

Describes convenient functions for navigation, including how to organize information on places you have visited.

5

Customizing Your Navigation System

The behavior of your navigation system depends on a number of settings. If you need to change any of the initial settings (default settings), read the relevant section of this chapter.

6

Using the AV Source (Built-in DVD Drive and Radio)

Describes how to use DVD-Video, CD, ROM, DivX and the radio.

7

Using the AV Source (Pioneer AV Equipment)

When Pioneer audio equipment is connected to the navigation system, that equipment can be operated from the navigation system. This chapter describes the operation of the audio source that can be used when Pioneer audio equipment is connected.

8

Customizing the AV Source Setting

Using the audio source, various settings are available to suit your audio-visual taste. This chapter describes how to change the settings.

Appendix

Read the appendix to learn more about your navigation system and such information as the availability of after-care. Please see "**Display Information**" section at the end of this manual for checking the details of each item on the menu.

Terminology

Before moving on, take a few minutes to read the following information about the conventions used in this manual. Familiarity with these conventions will help you greatly as you learn how to use your new equipment.

- Buttons on your navigation system are described in **ALL CAPITAL**, **BOLD** lettering:
  e.g.)
  MENU button, **MAP** button.
- Items in the different menus or touch keys available on the screen are described in quotations (" ") and bold:
  e.g.)
  "**Destination**", "**Settings**".
- Extra information, alternative use and other notes are presented like this:
  e.g.)
  ❒ After removing the disc from the slot, keep it in the case.
- The references are indicated like this:
  e.g.)
  ➲ Setting the Route Options ➞ Page 52

About the definition of terminology

"Front Display" and "Rear Display"

In this manual, the screen that is attached to the body of this navigation unit will be referred to as the "Front Display". Any additional optional screen that is purchased for use in conjunction with this navigation unit will be referred to as the "Rear Display".

"Video image"

"Video image" in this manual indicates the moving image of DVD-Video, DivX, iPod videos, and the equipment that is connected to this system with a RCA cable, such as a general-purpose AV equipment.

Important Safety Information

Before using your navigation system, be sure to read and fully understand the following safety information:

- ❒ Read the entire manual before operating this navigation system.
- ❒ The navigation features of your navigation system (and rear view camera option if purchased) are intended solely as an aid to you in the operation of your vehicle. It is not a substitute for your attentiveness, judgment, and care when driving.
- ❒ Do not operate this navigation system (or the rear view camera option if purchased) if doing so will divert your attention in any way from the safe operation of your vehicle. Always observe safe driving rules and follow all existing traffic regulations. If you experience difficulty in operating the system or reading the display, park your vehicle in a safe location and apply the parking brake before making the necessary adjustments.
- ❒ Never allow others to use the system unless they have read and understood the operating instructions.
- ❒ Never use this navigation system to route to hospitals, police stations, or similar facilities in an emergency. Please call 911.
- ❒ Route and guidance information displayed by this equipment is for reference purposes only. It may not accurately reflect the latest permissible routes, road conditions, one way streets, road closures, or traffic restrictions.
- ❒ Traffic restrictions and advisories currently in force should always take precedence over guidance given by the navigation system. Always obey current traffic restrictions, even if the navigation system provides contrary advice.
- ❒ Failure to input correct information about the local time may result in the navigation system providing improper routing and guidance instructions.
- ❒ Never set the volume of your navigation system so high that you cannot hear outside traffic and emergency vehicles.
- ❒ To promote safety, certain functions are disabled unless the vehicle is stopped and/or the parking brake is applied.
- ❒ The data encoded in the disc for the navigation system is the intellectual property of the provider, and the provider is responsible for such content.
- ❒ Keep this manual handy as a reference for operating procedures and safety information.
- ❒ Pay close attention to all warnings in this manual and follow the instructions carefully.
- ❒ Do not install the navigation unit where it may (i) obstruct the driver's vision, (ii) impair the performance of any of the vehicle's operating systems or safety features, including air bags, hazard lamp buttons or (iii) impair the driver's ability to safely operate the vehicle.
- ❒ Please remember to wear your seat belt at all times while operating your vehicle. If you are ever in an accident, your injuries can be considerably more severe if your seat belt is not properly buckled.
- ❒ Using the most current map DVDs will allow for most accurate destination mapping. Upgrade DVDs are available for purchase through your local Pioneer dealer.
- ❒ Never use headphones while driving.

⚠ WARNING

- ❒ Do not attempt to install or service your navigation system by yourself. Installation or servicing of the navigation system by persons without training and experience in electronic equipment and automotive accessories may be dangerous and could expose you to the risk of electric shock or other hazards.

Notes Before Using the System and Additional Safety Information

Information to User
Alteration or modifications carried out without appropriate authorization may invalidate the user's right to operate the equipment.

For Canadian model

This Class B digital apparatus complies with Canadian ICES-003.

Important (Serial Number:)
The serial number of this device is located on the bottom of this product. For your own security and convenience, be sure to record this number on the enclosed warranty card.

Failure to operate

Should the navigation system fail to operate properly, contact your dealer or the nearest authorized Pioneer service facility.

After-sales service for Pioneer products

Please contact the dealer or distributor from where you purchased the product for its after-sales service (including warranty conditions) or any other information. In case the necessary information is not available, please contact the companies listed below:
Please do not ship your product to the companies at the addresses listed below for repair without making advance contact.

U.S.A
Pioneer Electronics (USA) Inc.
CUSTOMER SUPPORT DIVISION
P.O. Box 1760
Long Beach, CA
90801-1760
800-421-1404

CANADA
Pioneer Electronics of Canada, Inc.
CUSTOMER SATISFACTION DEPARTMENT
300 Allstate Parkway
Markham, Ontario
L3R 0P2
1-877-283-5901

For warranty information, please see the Limited Warranty sheet included with your product.

Visit Our Web site

Visit us at the following site:

http://www.pioneerelectronics.com

In Canada

http://www.pioneerelectronics.ca

1. Register your product. We will keep the details of your purchase on file to help you refer to this information in the event of an insurance claim such as loss or theft.
2. Receive updates on the latest products and technologies.
3. Download owner's manuals, order product catalogues, research new products, and much more.
4. Receive notices of software upgrades and software updates.

Precaution

CAUTION: USE OF CONTROL OR ADJUSTMENT OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

CAUTION: THE USE OF OPTICAL INSTRUMENTS WITH THIS PRODUCT WILL INCREASE EYE HAZARD.

- Protect this product from moisture.
- If the battery is disconnected or discharged, the memory will be erased and must be reprogrammed.

⚠ WARNING

- **Handling the cord on this product or cords associated with accessories sold with the product may expose you to chemicals listed on proposition 65 known to the State of California and other governmental entities to cause cancer and birth defects or other reproductive harm. *Wash hands after handling.***

This product contains mercury. Disposal of this material may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronics Industries Alliance:
www.eiae.org

The backlighting lamp of LCD in this equipment contains mercury. Disposal of this material may be regulated due to environmental considerations according to Local, State or Federal Laws. For disposal or recycling information, please contact your local authorities or the Electronics Industries Alliance:
www.eiae.org

⚠ CAUTION

- **Do not allow this product to come into contact with liquids. Electrical shock could result. Also, damage to the product, smoke, and overheating could result from contact with liquids.**

Additional Safety Information

To ensure safe driving

Parking brake interlock

Certain functions (such as viewing of DVD-Video and certain touch key operations) offered by this navigation system could be dangerous and/or unlawful if used while driving. To prevent such functions from being used while the vehicle is in motion, there is an interlock system that senses when the parking brake is set and when the vehicle is moving. If you attempt to use the functions described above while driving, they will become disabled until you stop the vehicle in a safe place, and apply the parking brake. Please keep the brake pedal pushed down before releasing the parking brake.

⚠ WARNING

- **To avoid the risk of damage and injury and the potential violation of applicable laws, the navigation system is not for use with a "Video image" that is visible to the driver.**
- **In some countries or states the viewing of "Video image" on a display inside a vehicle even by persons other than the driver may be illegal. Where such regulations apply, they must be obeyed.**
- **When applying the parking brake in order to view "Video image" or to enable other functions offered by the navigation system, park your vehicle in a safe place, and keep the brake pedal pushed down before releasing the parking brake if the vehicle is parked on a hill or otherwise might move when releasing the parking brake.**

⚠ CAUTION

- **Accuracy/performance of interlock may be impacted by such factors as GPS signal detection, speed pulse wire connectivity, and driving habits or conditions of the place where the vehicle is parked.**
- **It is strongly suggested that the speed pulse wire be connected for accuracy of navigation and better performance of interlock.**
- **If the speed pulse wire is unavailable for some reason, it is recommended that the pulse generator ND-PG1 (sold separately) be used.**

When you attempt to watch "Video image" while driving, the warning "**Viewing of front seat video source while driving is strictly prohibited.**" will appear on the screen. To watch "Video image" on this display, stop the vehicle in a safe place and apply the parking brake. Please keep

the brake pedal pushed down before releasing the parking brake.

Color difference of the map display between day and night

Night display

The examples in this manual are illustrated using the daytime display. When driving at night, the colors you see may differ from those shown.

➲ "Day/Night Display" ➞ Page 75

When using a display connected to REAR OUT (VIDEO OUT)

This product's **REAR OUT** (**VIDEO OUT**) is for connection of a display to enable passengers in the rear seats to watch visual images.

⚠ WARNING

- **NEVER install the rear display in a location that enables the driver to watch visual images while driving.**

To avoid battery exhaustion

Be sure to run the vehicle engine while using this product. Using this product without running the engine can result in battery drainage.

⚠ WARNING

- **Do not use with vehicles that do not feature an ACC position.**

Rear view camera

With an optional rear view camera, you are able to use the navigation system as an aid to keep an eye on trailers, or backing into a tight parking spot.

⚠ WARNING

- **SCREEN IMAGE MAY APPEAR REVERSED.**
- **USE INPUT ONLY FOR REVERSE OR MIRROR IMAGE REAR VIEW CAMERA. OTHER USE MAY RESULT IN INJURY OR DAMAGE.**

⚠ CAUTION

- **The rear view camera function is to be used as an aid to keep an eye on trailers, or while backing up. Do not use for entertainment purposes.**
- **Please note that the edges of the rear view camera images may differ slightly according to whether full screen images are displayed when backing up, and whether the images are used for checking the rear when the vehicle is moving forward.**

⚠ CAUTION

- **The rear view mode is to use the navigation system as an aid to keep an eye on the trailers, or while backing up. Do not use this function for entertainment purposes.**

Purchasing software upgrade

Using the most current map DVDs will allow for most accurate destination mapping. Upgrade DVDs are available for purchase through your local Pioneer dealer.

Features

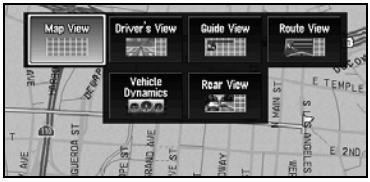
Touch panel key operation

It is possible to operate the navigation function and the AV function by using touch panel key.

Compatible with the memory navi mode

Memory navigation functions are provided with the hardware. For details, see page 31, "Memory navi mode."

Variety of View Modes
Various types of screen display can be selected for navigation guidance.



Wide Variety of Facility Information for Points of Interest (POI) Search
You can search your destination from all areas.
– Approximately 12 million POIs are included in this database as of April 2006.
– Some POI information may not be accurate or may become inaccurate through the passage of time. Please directly contact the POI to verify the accuracy of the information about the POI which appears in this database. POI information is subject to change without notice.

Auto Reroute Function
If you deviate from the set route, the system will re-calculate the route from that point so that you remain on track to the destination.

❒ This function may not work in certain areas.

Assign an Original Image as a Background Image
You can store your own pictures on a CD-R/-RW and DVD-R/-RW in JPEG format and import original images in this navigation system. These imported images can be set as a background image.

❒ Imported original images will be stored in the memory, but saving cannot be guaranteed completely. If original image data is deleted, set the CD-R/-RW and DVD-R/-RW again and re-import the original image.

DVD-Video playback
It is possible to play back DVD-Video, DVD-R (video mode) and DVD-RW (video mode).

❒ Remember that use of this system for commercial or public viewing purposes may constitute an infringement on the author's rights protected by the Copyright Law.

➲ "Handling and Care of the Disc" ➞ Page 158

➲ "Playable Discs" ➞ Page 17

CD playback
Music CD/CD-R/CD-RW playback is possible.

➲ "Handling and Care of the Disc" ➞ Page 158

➲ "Playable Discs" ➞ Page 17

MP3 file playback
It is possible to play back MP3 files recorded on CD-R/-RW/-ROM and DVD-R/-RW/-ROM.

❒ Supply of this navigation system only conveys a license for private, non-commercial use and does not convey a licence nor imply any right to use this product in any commercial (i.e. revenuegenerating) real time broadcasting (terrestrial, satellite, cable and/or any other media), broadcasting/streaming via internet, intranets and/or other networks or in other electronic content distribution systems, such as pay-audio or audio-on-demand applications. An independent licence for such use is required. For details, please visit http://www.mp3licensing.com.

➲ "Handling and Care of the Disc" ➞ Page 158

➲ "Playable Discs" ➞ Page 17

WMA file playback
You can play back WMA files recorded on CD-R/-RW/-ROM and DVD-R/-RW/-ROM.

AAC file playback
You can play back AAC files recorded on CD-R/-RW/-ROM and DVD-R/-RW/-ROM.

DivX® video file playback
You can play back DivX video files recorded on CD-R/-RW/-ROM and DVD-R/-RW/-ROM.

NTSC compatibility
This product is NTSC system compatible. When connecting other components to the product, be sure components are compatible with the same video system or else images will not be correctly reproduced.

Auto CD title and MP3/WMA/AAC file listing
Title lists will automatically be displayed when a CD TEXT, MP3, WMA or AAC disc is played. This system provides easy-to-operate audio functions

that allow playback simply by selecting an item from the list.

iPod® compatibility

When you use this navigation system with a Pioneer iPod cable (CD-I200) (sold separately), you can control an iPod with Dock connector.

- ❒ To obtain maximum performance, we recommend that you use the latest version of the iPod software.
- ❒ iPod is a trademark of Apple Inc., registered in the U.S. and other countries.

Hands-free phoning

Using Bluetooth adapter (e.g. CD-BTB200) (sold separately), this unit realizes effortless hands-free phoning with Bluetooth wireless technology.

Bluetooth audio player compatibility

Using a Bluetooth adapter (e.g. CD-BTB200) (sold separately), you can control a Bluetooth audio player featuring Bluetooth wireless technology.

Dolby Digital

When using Pioneer multi-channel processors that are planned to be compatible with this navigation system, please consult your dealer or nearest authorized Pioneer Service Station.

- ❒ Manufactured under license from Dolby Laboratories. “Dolby” and the double-D symbol are trademarks of Dolby Laboratories.

About DTS sound

Only digital output of DTS audio is possible. If navigation system’s optical digital outputs are not connected, DTS audio will not be output, so select an audio setting other than DTS.

“DTS” and “DTS Digital Out” are registered trademarks of DTS, Inc.

Multi-aspect

Switching between wide screen, letter box and panscan display is possible.

Multi-audio, Multi-subtitle, and Multi-angle

You can switch between multiple audio systems, subtitle languages and multiple viewing angles of a scene recorded on a DVD as desired.

- ❒ This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Rear entertainment

Video from sources with video can be displayed on the rear display.

Rear view camera ready

You can display what is behind the vehicle if connected to a rear view camera (sold separately).

➲ “Rear view camera” ➞ Page 14

Data communication function with XM tuner

If you connect the optional XM tuner (GEX-P10XMT) to the navigation system, you can use traffic information as a part of the navigation function. A separate subscription to XM NavTraffic is required.
In addition, if you subscribe to XM Audio services, you can utilize the XM display featuring station logos and category icons, to improve your XM Audio experience.

➲ “Using XM NavTraffic Information” ➞ Page 59
➲ “Listening to XM Satellite Radio” ➞ Page 96

❒ The broadcast station icons contained on this disc are based on the data provided by XM Satellite Radio as of November 2006. Any subsequent changes made by XM Satellite Radio in the lineup or icon of the broadcast station in the future may not be supported by the navigation system, and may cause the unit not to display the correct icons.

About XM NavTraffic Service and Pioneer Navigation

❒ XM NavTraffic subscription is required and is available only in select markets. Check www.xmnavtraffic.com for service availability, pricing information, and other details. The availability of XM NavTraffic data depends on the ability of the antenna to receive a signal. The signal may be unavailable if obstructed (e.g., by buildings, mountains, trees, bridges, bad weather, etc.). XM NavTraffic data also may be unavailable or not current if the original data source is not providing data (e.g., scheduled or unscheduled downtime) or has not been updated itself or if there is a time lag between the time the original data source is updated and when you receive the updated XM NavTraffic data.

❒ Depending on the amount of data being transmitted in your area, it may take several minutes to collect all of the available data.

❒ The information content depends on the information provided by XM NavTraffic Service, including data refresh and availability timing.

❒ Pioneer does not bear responsibility for the accuracy of the information transmitted.

❒ Pioneer does not bear responsibility for changes to information services provided by XM, such as cancellation of the services or subscription update.

❒ Traffic information is not taken into account when calculating estimated time of arrival time or travel time for your destination.

Playable Discs

About DVD-Video and CD

DVD and CD discs that display the logos shown below generally can be played back on this built-in DVD drive.

DVD-Video

CD

❒ DVD is a trademark of DVD Format/Logo Licensing Corporation.

❒ It is not possible to play back DVD-Audio discs. This DVD drive may not be able to play all discs bearing the marks shown above.

About AVCHD recorded discs

This unit is not compatible with discs recorded in AVCHD (Advanced Video Codec High Definition) format.
Do not insert AVCHD discs. If inserted, the disc may not be ejected.

About Dual layer discs

The unit cannot play back DVD-R/-RW discs that are written in Layer Jump Recording mode. For more information about the writing method, see the operation manual for the writing device.

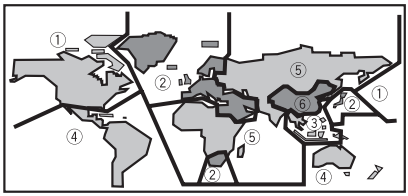
About DVD Map Disc

You can use discs intended for this navigation system. Use only discs approved by Pioneer.

➲ For details on other discs ➞ Page 158

DVD-Video disc region numbers

DVD-Video discs that have incompatible region numbers cannot be played on this DVD drive. The region number of the player can be found on the bottom of this product.
The illustration below shows the regions and corresponding region numbers.



What the Marks on DVDs Indicate

The marks below may be found on DVD disc labels and packages. They indicate the type of images and audio recorded on the disc, and the functions you can use.

Mark	Meaning
2	Indicates the number of audio systems.
2	Indicates the number of subtitle languages.
3	Indicates the number of viewing angles.
16 : 9 LB	Indicates the picture size (aspect ratio: screen width-to-height ratio) type.
1 ALL	Indicates the number of the region where playback is possible.

If the marks other than listed are found on DVD disc labels and packages, please ask for the DVD disc supplier for their meaning.

About WMA

Plays Windows Media™

The Windows Media™ logo printed on the box indicates that this unit can play back WMA data. WMA is short for Windows Media Audio and refers to an audio compression technology that is developed by Microsoft Corporation. WMA data can be encoded by using Windows Media Player version 7 or later.
Windows Media and the Windows logo are trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries.

Notes

- This unit may not operate correctly depending on the application used to encode WMA files.
- Depending on the version of Windows Media Player used to encode WMA files, album names and other text information may not be correctly displayed.
- There may be a slight delay when starting playback of WMA files encoded with image data.

About AAC

AAC is short for Advanced Audio Coding and refers to an audio compression technology standard used with MPEG 2 and MPEG 4. Several applications can be used to encode AAC files, but file formats and extensions differ depending on the application which is used to encode.
This unit plays back AAC files encoded by iTunes® version 4.6.

❒ iTunes is a trademark of Apple Inc., registered in the U.S. and other countries.

About DivX

DivX is a compressed digital video format created by the DivX® video codec from DivX, Inc. This unit can play DivX video files recorded on CD-R/RW/ROM and DVD-R/RW/ROM discs. Keeping the same terminology as DVD video, individual DivX video files are called “Titles”. When naming files/titles on a CD-R/RW or a DVD-R/RW disc prior to burning, keep in mind that by default they will be played in alphabetical order.

Official DivX® Certified product Plays all versions of DivX® video (including DivX® 6) with standard playback of DivX® media files

❒ DivX, DivX Certified, and associated logos are trademarks of DivX, Inc. and are used under license.

About the SAT RADIO READY Logo

The SAT RADIO READY logo printed below the CD loading slot indicates that the Satellite Radio Tuner for Pioneer (i. e., XM tuner and Sirius satellite tuner which are sold separately) can be controlled by this navigation system. Please inquire with your dealer or nearest authorized Pioneer service station regarding the satellite radio tuner that can be connected to this navigation system. For satellite radio tuner operation, please refer to the Operation Manuals of the navigation system and satellite radio tuner.

Note:
The system will use direct satellite-to-receiver broadcasting technology to provide listeners in their cars and at home with crystal-clear sound seamlessly from coast to coast. Satellite radio will create and package over 100 channels of digital-quality music, news, sports, talk and children's programming.

"SAT Radio", the SAT Radio logo and all related marks are trademarks of Sirius Satellite Radio inc., and XM Satellite Radio Inc.

About the XM NAVTRAFFIC Logo

Required $12.95 basic monthly XM radio subscription and XM NavTraffic service subscriptions sold separately. XM NavTraffic only available in select markets. Other fees and taxes, including a one-time activation fee, may apply. Subscription fee is consumer only. All fees and programming subject to change. Subscriptions subject to Customer Agreement available at xmradio.com. XM radio service only available in the 48 contiguous United States and Canada.
© 2007 XM Satellite Radio Inc. All rights reserved.

NAVTEQ Traffic™ is a trademark of NAVTEQ.
© 2007 NAVTEQ All rights reserved.

To Protect the LCD Panel and Screen

❒ Do not allow direct sunlight to fall on the display when this product is not being used. Extended exposure to direct sunlight can result in LCD screen malfunction due to the resulting high temperatures.

❒ When using a cellular phone, keep the antenna of the cellular phone away from the display to prevent disruption of the video by the appearance of spots, colored stripes, etc.

❒ To protect the LCD screen from damage, be sure to touch the touch keys with a finger. (The stylus is supplied for special calibrations. Do not use the stylus for normal operations.)

Using force to manually adjust the LCD panel angle may damage the LCD panel.

➲ "Adjusting the LCD panel angle" ➞ Page 25

For Viewing LCD Comfortably

Due to its construction, the view angle of the LCD screen is limited. The viewing angle (vertical and horizontal) can be increased, however, by using **Brightness** to adjust the black density of the video. When using for the first time, adjust the black density in accordance with the viewing angle (vertical and horizontal) to adjust for clear viewing. **Dimmer** can also be used to adjust the brightness of the LCD screen itself to suit your personal preference.

Resetting the Microprocessor

⚠ CAUTION

- **Pressing the RESET button deletes the contents of the system's memory.**

About the data being deleted

The information is erased by pressing the **RESET** button or disconnecting the yellow lead from the battery (or removing the battery itself). However, the following items are not erased:

- Sensor learning status and driving status
- Memory areas that were memorized manually
- **Areas to avoid**
- Registered Locations in "**Address Book**"
- Data registered in "**Emergency Info**"

Reset the navigation system without changing the condition memory

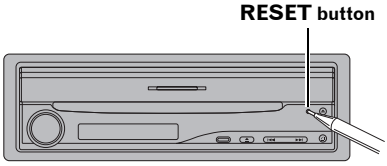
Pressing the **RESET** button of the navigation system lets you reset the microprocessor to its initial settings without changing the condition memory.

The microprocessor must be reset under the following conditions:

- Prior to using this product for the first time after installation.
- If the product fails to operate properly.
- If there appear to be problems with the operation of the system.
- When changing the combination of the equipment.
- When adding/removing additional products that connect to the navigation system.

1 Turn the ignition switch OFF.

2 Press the RESET button with a pen tip or other pointed instrument.



❒ If you have connected other equipment (for example, Bluetooth adapter) to this navigation system, be sure to reset that equipment too.

Reset the navigation system to the initial (factory) setting

When you want to erase memorized settings and return the navigation system to its initial (factory) settings, carry out the following operations.

1 Turn the engine ON or set the ignition switch to ACC position.

2 Press the RESET button with a pen tip or other pointed instrument.

❒ Some navigation settings and data are not erased.

DVD Map Discs for Your Navigation System

Configuration of data recorded on discs

The map for this navigation system is supplied on two discs: one for the west and the other for the east. Please set the disc to use according to your destination or current location.
The areas recorded on each disc are as follows:

West area disc

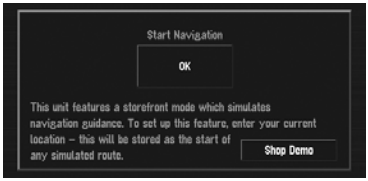
East area disc

❒ Removing the disc and inserting another disc causes the navigation system to automatically restart and reload the new route. (This automatic “Reroute” operation cannot be canceled.)

Initial Use

If the initial learning is not complete, following screen appears.

1 If a message appears, touch “OK”.


Start Navigation
OK
This unit features a storefront mode which simulates navigation guidance. To set up this feature, enter your current location – this will be stored as the start of any simulated route.
Shop Demo

When the navigation system begins running for the first time, the 3D Hybrid Sensor automatically begins initial learning. Positioning is performed solely by GPS satellites until the 3D Hybrid Sensor initial learning is complete, so the location of your vehicle may not be very accurate. This is not an error. When the initial learning is complete, the location of your vehicle can be detected with high accuracy.

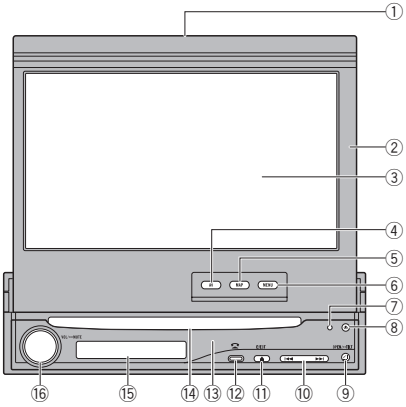
❒ “**Shop Demo**” is the demonstration used in a store. Do not touch “**Shop Demo**”.

➲ If an error message appears during initial learning ➞ Page 152

Basic Operation

Navigation unit

This section gives information about the names of the parts and the main features using the buttons.



① **Disc indicator**
When a disc is set in navigation system, this indicator lights.

② **LCD panel**

③ **LCD screen**

④ **AV button**
Press to display the AV operation screen.

⑤ **MAP button**
Press to view the map or change view mode.

⑥ **MENU button**
Press to display the navigation menu or AV menu.

⑦ **RESET button**

➲ "Resetting the Microprocessor" ➞ Page 20

⑧ **DETACH button**
Press to remove the front panel from the display unit.

⑨ **OPEN/CLOSE button**
Press to open or close the LCD panel.
Press and hold to display **Flap Setup** screen.

➲ "Adjusting the LCD panel angle" ➞ Page 25

⑩ **I◄◄/►►I button**
Press to perform manual seek tuning, fast forward, reverse and track search controls.

⑪ **EJECT button**

⑫ **PHONE button**
Press to display **BT-TEL** operation screen.
Press and hold to switch the indication of sub display in the following order:
Present time — No indication — AV source information

➲ "Hands-free Phoning" ➞ Page 105

⑬ **Front panel**

➲ "Removing the front panel" ➞ Page 26

⑭ **Disc loading slot**

➲ "Inserting/Ejecting a Disc" ➞ Page 24

⑮ **Sub Display**
Displays the current time or information about the AV source that is currently playing.

⑯ **VOLUME knob**
Turn to adjust the AV (Audio and Video) volume or press to change the AV source. Press and hold the **VOLUME** knob to switch the source to mute.

Flow from Startup to Termination

❒ If the program is not installed, see page 136 and install the program.

1 Start the engine.

The navigation system is also turned on. After some time, the navigation opening screen comes on for a few seconds. Then, a message screen is displayed.

❒ Insert the Pioneer DVD Map Disc to the disc loading slot.

2 Check the details of the caution message and touch "OK".

You can operate the navigation system by touching keys displayed on the screen.

3 Turn off the vehicle engine.

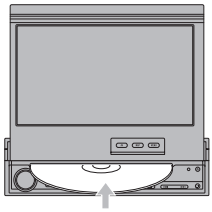
This navigation system is also turned off.

❒ This product also can be switched off by turning the ACC (ignition) OFF.

Inserting/Ejecting a Disc

Inserting a disc

1 Insert a disc into the disc loading slot.



❒ The DVD drive plays one standard 12-cm or 8-cm (single) disc at a time. Do not use an adapter when playing 8-cm discs.

❒ Do not insert anything other than a disc into the disc loading slot.

Ejecting a disc

1 Press the EJECT button.

The disc is ejected.

Opening and Closing the LCD Panel

⚠ CAUTION

- **Do not close the LCD panel with hands by force. This may cause malfunction.**
- **Keep hands and fingers clear of the display unit when opening, closing, or adjusting the LCD panel. Be especially cautious of children's hands and fingers.**

The LCD panel will open or close automatically by turning the ignition switch on or off. You can turn off the automatic open/close function.

- The automatic open/close function will operate the display as follows:
  - — When the ignition switch is turned OFF while the LCD panel is open, the LCD panel will close after a few moments.
  - — When the ignition switch is turned ON again (or turned to ACC), the LCD panel will open automatically.
  - — Removing or attaching the front panel will automatically close or open the LCD panel.

➲ Removing the front panel ➞ Page 26

- When the ignition switch is turned OFF after the LCD panel has been closed, turning the ignition switch ON again (or turning it to ACC) will not open the LCD panel. In this case, press the **OPEN/CLOSE** button to open the LCD panel.
- When closing the LCD panel, check to make sure that it has closed completely. If the LCD panel has stopped halfway, leaving it like this could result in damage.

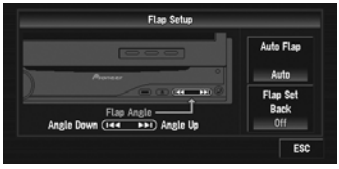
1 Press the OPEN/CLOSE button to close the LCD panel.

❒ To open the LCD panel, press the **OPEN/CLOSE** button again.

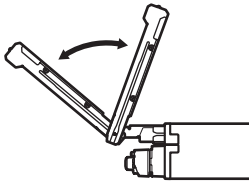
Setting the LCD panel

Adjusting the LCD panel angle

1 Press and hold the OPEN/CLOSE button.
The **Flap Setup** screen appears.



2 Press the ⏮ or ⏭ button to adjust the LCD panel to an easily viewable angle.
The LCD panel angle continues changing as long as you keep pressing and holding the ⏮ or ⏭ button.



3 Touch "ESC".
When **Flap Setup** is displayed during the navigation screen, the map screen is displayed.
When **Flap Setup** is displayed during the AV screen, the current AV operation screen is displayed.

❒ If you can hear the LCD panel knocking against your vehicle's console or dashboard, press the ⏮ button to move the LCD panel slightly forward.

❒ When adjusting the LCD panel angle, be sure to press the ⏮ or ⏭ button. Manually adjusting the LCD panel by hand may damage it.

❒ The adjusted the LCD panel angle will be memorized and LCD panel will automatically return to this angle the next time the LCD panel is opened.

Setting the slide back function

You can adjust LCD panel slide position to prevent the display from hitting the gearstick of an automatic vehicle when it is in P (park) position.

❒ Please be careful, as LCD panel will slide immediately after the setting is turned "**On**".

1 Press and hold the OPEN/CLOSE button.
The **Flap Setup** screen appears.

2 Touch "Flap Set Back".
Touching "**Flap Set Back**" switches between "**On**" and "**Off**".

Setting the automatic open function

When you do not wish the display to open/close automatically, you can set the automatic open function to the manual mode.

1 Press and hold the OPEN/CLOSE button.
The **Flap Setup** screen appears.

2 Touch "Auto Flap".
Each touch of the "**Auto Flap**" changes the settings as follows:
- **Manual** — You have to press the **OPEN/CLOSE** button to open/close the display
- **Auto** — The display automatically opens/closes when power to navigation system is turned on

Protecting Your Product from Theft

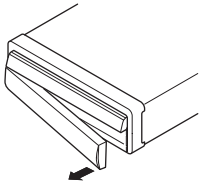
The front panel can be detached from the display unit to discourage theft, as described below.

Important:
- Never grip the display and the buttons tightly or use force when removing or attaching.
- Avoid subjecting the front panel to excessive shocks.
- Keep the front panel out of direct sunlight and high temperatures.
- After detaching the front panel, keep it in a safe place so it is not scratched or damaged.

Removing the front panel

1 Press the DETACH button to remove the front panel.

2 Gently grip the right side of the front panel and slowly pull it outward.
Take care not to drop the front panel and protect it from contact with water or other fluids to prevent permanent damage.



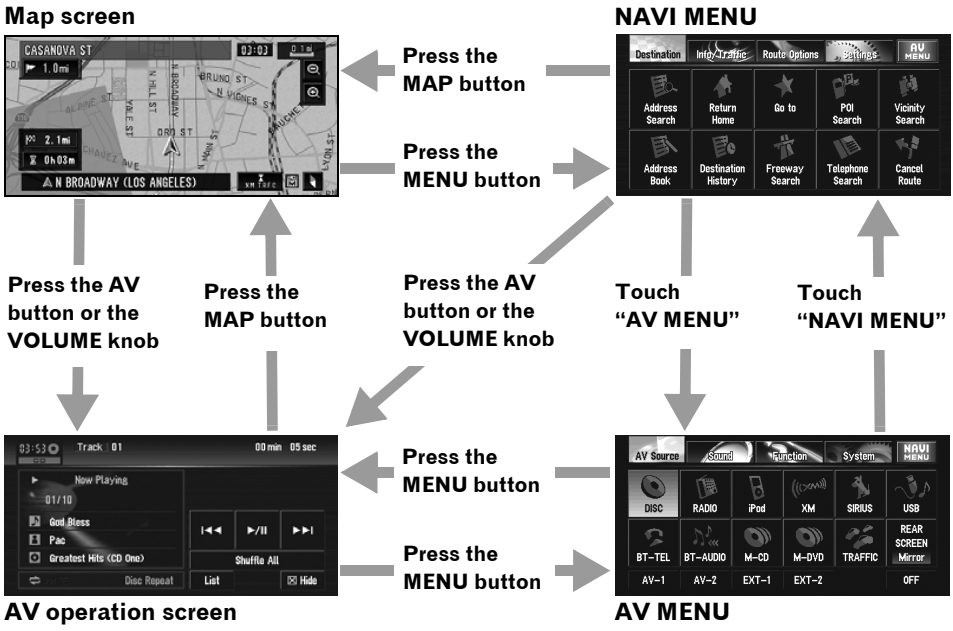
3 Put the front panel into provided protective case for safe keeping.

Attaching the front panel

1 Replace the front panel by holding it upright to this product and clipping it securely into the mounting hooks.

About NAVI MENU and AV MENU

The methods for displaying the NAVI MENU, used for navigation operations, and the AV MENU, used for AV operations, are different depending on which screen is currently displayed.



Basic Navigation

The most basic search function is **Address Search**, in which the address is specified and the destination searched. This section describes how to use **Address Search** and the basics of using the navigation system.

⚠ CAUTION

- **For safety reasons, you cannot use some of these basic navigation functions while your vehicle is in motion. To enable these functions, you must stop in a safe place and apply the parking brake (see page 13 Interlock for details).**

Basic flow of operation

1 **Park your vehicle in a safe place, and apply the parking brake.**

↓

2 **Insert the Pioneer DVD Map Disc to the disc loading slot.**

↓

3 **Press the MAP button to display the map screen.**

↓

4 **Press the MENU button to display the NAVI MENU.**

↓

5 **Touch “Destination” to display Destination menu.**

↓

6 **Select the method of searching for your destination.**

↓

7 **Enter the information about your destination.**

↓

8 **Navigation system calculates the route to your destination, and then shows the route on the map.**

↓

9 **After releasing the parking brake, drive in accordance with the navigation guidance, subject to the important safety instructions noted on page 12 to 14.**

How to set your destination by address

1 Press the MAP button to display the map screen.

2 Press the MENU button to display the NAVI MENU.

3 Touch “Destination” to display Destination menu.

4 Touch “Address Search”.

5 Touch “Zone code key”.

If the destination is in another zone, this changes the zone setting.

Zone code key

6 Touch the zone code of the destination, then touch “OK”.

Selected zone

Zone code

7 Input the house number and touch “OK”.

Touch the characters you wish to input.

⌫:

The input text is deleted letter by letter from the end of the text. Continuing to this will delete all of the text.

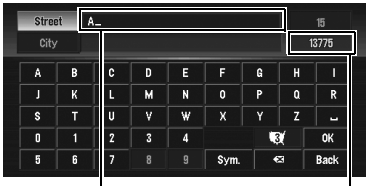
“Back”:

Returns you to the previous screen.

- ❒ You may also input a prefix to the house number.
- ❒ If the house number you have input is not found among subsequently selected “Street” or “City” data, a message appears saying that the address has not been found. In that case, try inputting the house number again.
- ❒ Touching “**OK**” with no input allows you to specify and search a street name or the name of the city or area first.

8 Input the street name.

Touch the letter you wish to input. If the next screen is not automatically displayed even though the street name is entered, try touching “**OK**”.



Inputted text

The number of applicable candidates

“City”:

Touch if you wish to first specify the destination city or area.

⌫:

The input text is deleted letter by letter from the end of the text. Continuing to this will delete all of the text.

“Sym.”:
You can input symbols such as “&”and “+”.
“0-9”:
You can input numbers.
“Back”:
Returns you to the previous screen.

❒ For example, for “Early California Ct”, you can just enter part of the name, such as “California”.

❒ When entering the characters, the unit will automatically query the database for all possible options. If there is only one letter that could possibly follow your entry, that letter will automatically be entered.

Searching your destination after specifying the name of the city or area

You can narrow down the search candidates by initially specifying the name of the city or area where your destination is located. Inputting the name of the city or area then selecting the destination city or area from the list returns you to the Street Name input screen. Now input the street name, select the street from the list, and proceed to step 9.

In the selected area, if you touch “**City**” without entering the name of the city or area, you can set the cities or areas that you have searched in the past from the list. (This function is not available in the first time and when you have selected an area that you have never searched before.)

9 Touch the street from the list.

Scroll bar

Touching the ▲ or ▼ on the scroll bar scrolls you through the list and allows you to view the remaining items.
If an item cannot be displayed in a single line, touching the ▶ to the right of the item allows you to see the whole line.

- Touching the ✚ specifies the selected street and streets intersecting it, allowing you to set an intersection as your destination. This is useful when you don’t know the house number of your destination or cannot input the house number of the specified street.
- Touching the ▦ displays a map of the place you have selected. (Candidate place names may appear in the list screen.)

➲ “When ▦ appears to the right of the list” → Page 41

❒ If the selected street has only one matching location, route calculation starts after pressing the item.

❒ A list appears if multiple options exist, select the desired one from the list, and proceed to the next step.

If you did not input the house number in Step 7, the house number input screen comes up after the “Street” and “City” are determined. You should now input the house number (perform Step 5).

❒ If there is more than one place for the house number input, or if there is no such house number in that place, a range of house numbers are displayed. To start the route calculation, touch the range within the list you wish to specify as the destination.

❒ You can also see the destination on the map by touching the ▦ to the right of the list.

➲ “When ▦ appears to the right of the list” → Page 41

❒ If you press the **MENU** button, the calculation is canceled.

❒ After the route calculation, the system start storing the map data around the route for “Memory navi mode”.

❒ When performing a destination search with the route already set, select whether to regard the specified area as your destination and search for a new route, or search for a route via that area.

➲ Adding way points to the route ➞ Page 48

❒ Once searched for, the location is automatically stored in the "**Destination History**".

➲ "Registering a previous location in the Address Book" ➞ Page 56

10 Drive in accordance with the screen and voice information.

Your navigation system gives you the following information with the timing adjusted to the speed of your vehicle:

- Distance to the next turning point
- Direction of travel
- Road number of the freeway
- Way point (If this is set)
- Your destination

➲ Searching for another route ➞ Page 48

➲ "Canceling the Route Guidance" ➞ Page 46

❒ Touching the 1.0mi allows you to hear the information again.

❒ To adjust the navigation volume, go to the NAVI MENU.

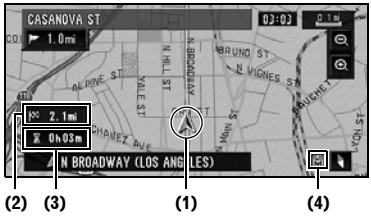
➲ Navigation volume adjustment ➞ Page 73

❒ If you stop at a gas station or a restaurant during the route guidance, your navigation system remembers your destination and route information. When you start the engine and get back on the road, route guidance resumes.

How to view the map screen

This section describes only the items that are displayed on the map screen.

➲ Details of the map screen ➞ Page 37



(1) Current location

(2) Distance to the destination

(3) Estimated time of arrival (or travel time to your destination)

(4) Memory navi indicator

➲ "Memory Navi Mode" ➞ Page 138

Memory navi mode

While the DVD Map Disc is inserted, you can store the map data into the internal memory of the navigation system. If the DVD Map Disc is removed from the navigation system after storing is completed, navigation is performed using the data in the memory (memory navi mode). When M disappears, memory navi mode is ready. You can now remove the DVD Map Disc. In the memory navi mode, you can play a music CD or DVD-Video on the navigation system while navigating at the same time. The operation automatically switches to the memory navi mode when the DVD Map Disc is removed from the navigation system.

Some functions are restricted and different from the navigation using the DVD Map Disc (DVD navi mode). If you want to use these functions, please insert the DVD Map Disc again.

During the memory navi mode, navigation is performed only using the data read into the memory.

❒ You may need to insert the DVD Map Disc and store new data in the memory during navigation operation, such as when the destination is far away. The memory navi mode uses the following map data to perform navigation.

➲ Refer to page 138 for more detail information.

Basic AV Source

This section describes basic AV operations, such as adjusting the volume, switching the source and stopping the source, using CD operations as an example.

Selecting an AV source

1 Press the VOLUME knob (or AV button) to switch to the AV operation screen.

2 Press the MENU button to change to the AV MENU.

3 Touch the source icon to select the desired source in the AV Source screen.

- Also, press the **VOLUME** knob repeatedly when the AV operation screen is displayed to switch between sources:
  "**DISC**" [CD, ROM, DVD-V, DivX] (built-in DVD drive) — "**RADIO**" (tuner) — "**iPod**" (iPod) — "**XM**" (XM tuner) — "**SIRIUS**" (SIRIUS tuner) — "**USB**" (USB) — "**BT-TEL**" (Bluetooth Telephone) — "**BT-AUDIO**" (Bluetooth Audio) — "**M-CD**" (multi-CD player) — "**M-DVD**" (multi-DVD player) — "**AV-1**" (video input1) — "**AV-2**" (video input2) — "**EXT-1**" (external unit 1) — "**EXT-2**" (external unit 2) — "**OFF**" (source off)
  - Touch "**OFF**" to switch the source to **OFF**.
- Touch "**REAR SCREEN**" to select the source for Rear display.
  - "Selecting the video for "Rear display"" → Page 130
- Touch "**TRAFFIC**" to switch to XM or SIRIUS screen that memorized traffic channel.
  - "Using the direct traffic announcement function" → Page 99, 103
- Sources that are not connected to the navigation system, sources that are busy reading a disc or magazine, and sources with incomplete settings cannot be used.
- The term "external unit" refers to a Pioneer product (such as one available in the future) that, although incompatible as a source, enables control of basic functions by the navigation system. Two external units can be controlled by the navigation system. When two external units are connected, the navigation system allocates them to external unit 1 or external unit 2.
- When the "**Antenna Control**" mode is set to "**Radio**", the vehicle's antenna can be stowed or turned off by following the instructions below.
  — Change the source from radio (AM or FM) to another source.
  — Turn the source off.
  — Turn off the ignition switch (ACC OFF).
  If the "**Antenna Control**" mode is set to "**Power**", the vehicle's antenna can be stowed or turned off only when the ACC is set to "OFF".
  - "**Antenna Control**" → Page 132

Adjusting the volume

1 Use the VOLUME knob to adjust the audio sound level.

With this product, rotate the **VOLUME** knob to increase or decrease the volume.

- To adjust the navigation volume (voice guidance), access "**Volume**" in the NAVI MENU.
  - Navigation volume adjustment → Page 73

Turning the source off

1 Press the VOLUME knob (or AV button) to switch to the AV operation screen.

2 Press the MENU button to change to the AV MENU.

3 Touch "OFF" in the AV Source screen.

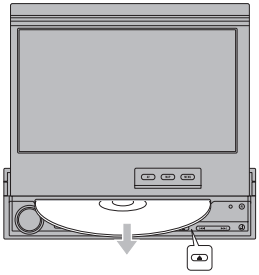
❒ Press and hold the **VOLUME** knob to switch the source to mute.

How to listen to a CD

You can listen to an audio CD by removing the DVD Map Disc from the navigation system.

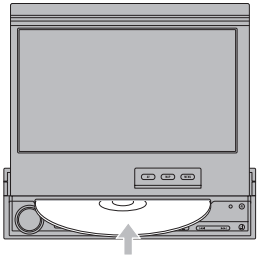
➲ About Memory Navigation ➞ "Memory navi mode" on page 31. (For details, see page 138.)

1 Press the EJECT button to remove the DVD Map Disc.

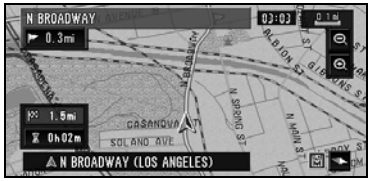


2 Insert the CD to the disc loading slot.

The audio CD set in the navigation system is played.



3 Press the VOLUME knob (or AV button) to switch the Audio screen.



Current track information

4 Rotate the VOLUME knob to adjust the volume.

5 Touch ⏮ or ⏭ to select a track you want to listen to.

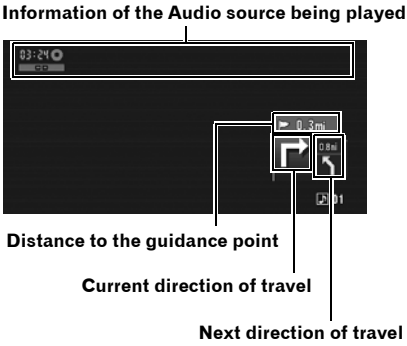
Information of the track being played

You can also select a track by pressing the ⏮ or ⏭ button on the hardware.

6 To fast forward or rewind, keep touching ⏮ or ⏭.

You can also perform fast rewind/fast forward by holding the ⏮ or ⏭ button on the hardware.

7 To hide the touch key, touch “Hide”.


Information of the Audio source being played
Distance to the guidance point
Current direction of travel
Next direction of travel

❒ If you touch the screen, the touch panel keys are displayed again.

Available buttons

The availability of a specific button or functionality is indicated by its color. Depending on the status of your vehicle, some buttons will be available, while others will not be.
(e.g. “Address Search”)

Black touch key:
The button is operable.

Gray touch key with white letters:
The function is not available during memory navi mode. Or, the function is not available for areas not stored on the disc.
Touching this button activates a message indicating that the function is not available.

Gray touch key with gray letters:
The function is not available (e.g., operation is prohibited while driving).

Navigation Menu and Map Display

This section describes the basic navigation operations, including how to display the NAVI MENU and how to use the shortcut menu and the map screen.

How to Use Menu Screens

There are two types of navigation menu: the "NAVI MENU" and the "Shortcut menu".

❒ The functions that cannot be used during the memory navi mode are indicated in gray with black letters. If you want to use such functions, insert the DVD Map Disc.

NAVI MENU

Use this menu for basic operation of your navigation system.

1 With the map displayed, press the MENU button.

2 To change to the menu you want to use, touch the name of the menu displayed at the top of the screen.

The NAVI MENU is divided into four submenus: "**Destination**", "**Info/Traffic**", "**Route Options**", "**Settings**".

❒ Touch "**AV MENU**" changes to the AV operation screen.

➲ AV operation screen ➞ Page 79

3 If you want to return to the map, press the MENU button.

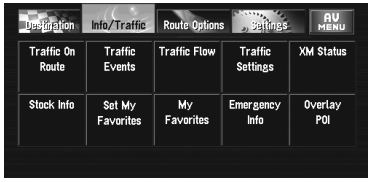
Destination menu

Select the destination search method. The route also can be canceled from this menu.

➲ Specifying the address and searching the destination ➞ Page 28

➲ Other search methods ➞ Page 43 to 45

Info/Traffic menu



Use this menu to check traffic information mainly using the GEX-P10XMT*.

❒ "**Traffic On Route**", "**Traffic Events**", "**Traffic Flow**", "**Stock Info**", "**Set My Favorites**", and "**My Favorites**" can be used only when the GEX-P10XMT* is connected to the navigation system.

GEX-P10XMT*:
XM Digital Satellite Data & Audio Receiver (sold separately). Traffic information only available for cities where information is provided by XM NavTraffic service. Active subscription to XM NavTraffic required to receive traffic information on the navigation system.

❒ "**Traffic On Route**", "**Traffic Events**", and "**Traffic Flow**" can only be used in DVD navi mode.

➲ Confirming traffic information ➞ Page 59

➲ Registering information for emergencies ➞ Page 65

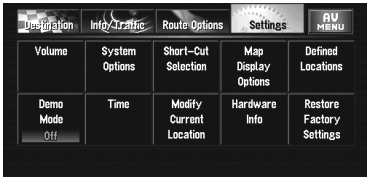
Route Options menu

Used to specify the conditions for setting the route to the destination.

➲ Setting the Route Options ➞ Page 52

❒ "**Edit Current Route**", "**View Current Route**" and "**Recalculate**" can be used when the route is set.

Settings menu



Set the navigation functions so they can be used easily.

➲ Settings menu ➞ Chapter 5

Shortcut menu

Shortcuts allow you to perform various tasks, such as route calculation for the location indicated by the scroll cursor or registering a location in the **Address Book**, faster than using the NAVI MENU.

❒ The shortcuts displayed onscreen can be changed. The shortcuts described here are those that can be selected with the system as default setting.

❒ Items marked with an asterisk (*) cannot be removed from the shortcut menu.

➲ Changing a shortcut ➞ Page 74

1 When the map is displayed, briefly touch any part of the map.

If you continue to touch the map, it will start scrolling.

Shortcut menu

: Destination*

Displayed when the map is scrolled. Set the route to the place specified with the scroll cursor.

➲ Searching the destination by map ➞ Page 41

: Change Route*

Displayed when the map is not scrolled. This item can be selected only during route guidance. You can add changes to your route and check it.

➲ "Recalculating the route to the destination using the Route Options menu" ➞ Page 48

➲ "Recalculating a specified distance in the route ahead of your current position" ➞ Page 48

➲ "Checking the Set Route" ➞ Page 46

➲ "Canceling the Route Guidance" ➞ Page 46

➲ "Skipping a way point" ➞ Page 49

: Vicinity Search

Select a location with the scroll cursor. Nearby POIs (Points Of Interest) will also be found.

➲ Searching the facilities surrounding a certain place ➞ Page 44

: Registration

Registers the location indicated by the scroll cursor to **Address Book**.

❒ Touching "**Registration**" and selecting "**Save**" allows you to register the location to Address Book.

➲ Registering a place ➞ Page 56

: Volume Setting
The sound volume for the navigation can be set.
➲ Setting the guidance volume ➞ Page 73

: Menu Close
Hides the shortcut menu.

How to Use the Map

Most of the information provided by your navigation system can be seen on the map. You need to get to know how the information that appears on the map.

Switching the current position screen display mode

There are four types of map display and two additional view modes.

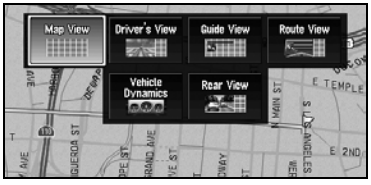
- **Map View**
- **Driver's View**
- **Guide View** (during route guidance only)
- **Route View** (during route guidance only)
- **Vehicle Dynamics**
- **Rear View** (Only possible when the "**Camera**" is set to "**On**".)

❒ If you deviate from the route when the view mode is **Route View** or **Guide View** and enter a street not recorded on the disc, the screen changes to **Map View**. When you return to the route, the screen returns to the original view and resumes route guidance.

1 Press the MAP button to display a map of the area around your current position.

2 Press the MAP button again.

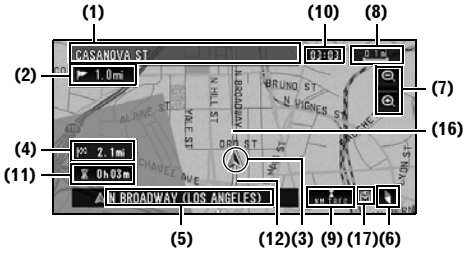
3 Touch the mode name or press the MAP button to select the mode you want to display.



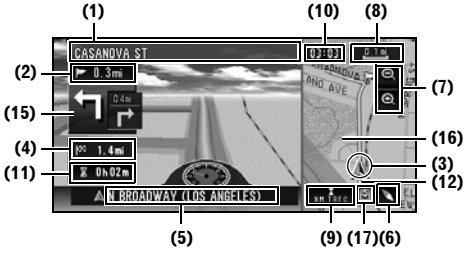
❒ If the mode is selected by pressing the **MAP** button, the screen automatically switches to the selected map display mode after 4 seconds.

How to view the map of the current location

Map View
Displays the standard map.



Driver's View
Displays the map from the driver's viewpoint.

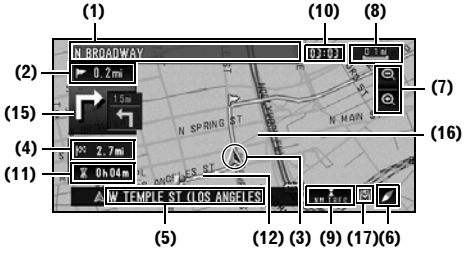


⚠ CAUTION

- **In Driver's View, a small gauge with no scale is depicted, but is not intended to be used as a speedometer. Use the actual speedometer of your vehicle to confirm speed.**

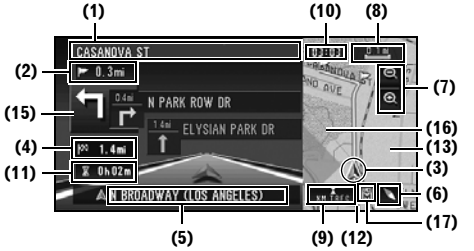
Guide View

Overlays two arrows onto the standard map ("**Map View**").



Route View

Displays the name of the street you will travel along next and an arrow indicating the direction of travel.



Vehicle Dynamics Display

Indicates the status of your vehicle.

⚠ CAUTION

- **In the Vehicle Dynamics Display mode, the speedometer display may show a different speed than your vehicle's actual speedometer, because your unit measures speed in a different way.**

❒ You can change the items indicated on the left and right meters.

➲ Setting the **Vehicle Dynamics** Display ➞ Page 69

Rear View

Rear view image is displayed on of the screen.

❒ If you touch the screen briefly, the screen changes **Map View** with shortcut menu. If you close the shortcut menu the screen returns to **Rear View**.

❒ If the "**Camera**" is set to "**Off**", the rear view image is not displayed. Please set it to "**On**".

➲ Camera setting ➞ Page 131

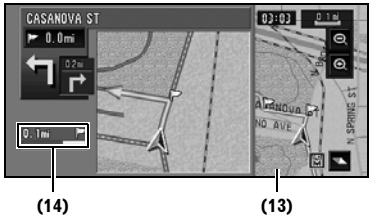
❒ When using a camera set to turn ON/OFF in conjunction with the reverse signal, no camera images will be displayed in rear view mode while you are moving forward.

❒ To use "**Rear View**", the camera must be set to always remain on. In that case, you should ask the camera maker or dealer whether the camera's functions or longevity would be affected.

❒ Rear View can be displayed at all times (e.g. when monitoring an attached trailer) as a split screen where map information is partially displayed.
Please beware that in this setting, camera image is not resized to fit to screen, and that a portion of camera image may not be viewable.

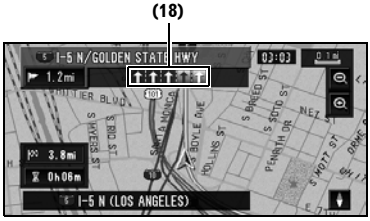
Enlarged map of the intersection

When "**Close-up of Junction**" in the Settings menu is "**On**", an enlarged map of the intersection appears.

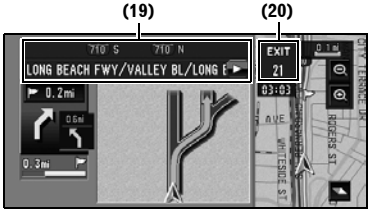


❒ The system cannot be changed to an enlarged intersection map in the following mode.
—Driver's View
—Vehicle Dynamics

Display during freeway driving
In certain locations of the freeway, lane information is available, indicating the recommended lane to be in to easily maneuver the next guidance.



While driving on the freeway, freeway exit numbers and freeway signs may be displayed when in the vicinity of interchanges and exits.



Display items

Guidance point*
The next guidance point (next turning point, etc.) is shown by a yellow flag.

Destination*
A checker-flag indicates your destination.

(1) Name of the street to be used (or next guidance point)*

(2) Distance to the guidance point*
Touch to access the next information.

(3) Current location
The current location of your vehicle. The tip of the triangular mark indicates your heading and the display moves automatically as you drive.

(4) Distance to the destination (or distance to way point)*
If way points are set, the display changes with each touch. When two or more way points are set, the distance to the destination and the distance to the next way point are switched.

(5) Name of the street your vehicle is traveling along (or City Name, etc.)

(6) Compass
The red arrow indicates north. If the scale is less than 25 mi (50 km), touching the map changes the direction that it is displayed in (north up/heading up). When the scale of the map is greater than 25 mi (50 km), it is fixed to "north up".

Heading up:
The map display always shows the vehicle's direction as proceeding toward the top of the screen.

North up:
The map display always has north at the top of the screen.

(7) Zoom in/Zoom out
Touch to change the map's scale.

➲ "Changing the scale of the map" ➞ Page 40

(8) Map scale
The scale of the map is indicated by distance.

(9) TRAFFIC icon
This appears when an XM tuner (GEX-P10XMT, sold separately) is connected, and traffic information is received.

(10) Current time

(11) Estimated time of arrival (or travel time to your destination)*
The display alternates by pressing it.
The estimated time of arrival is automatically calculated from the **Average Speed** set and the actual average speed.

➲ How to set average speed ➞ Page 74

(12) Tracking mark
The tracking mark shows the route your vehicle has traveled with dots.

➲ Select the tracking setting ➞ Page 75

(13) Map of your surroundings (Side map)
Touching the map briefly shows the shortcut menu, while touching longer changes the map to Scroll mode.

➲ "Moving the map to the location you want to see" ➞ Page 40

(14) Distance to a turning point*
Displayed on the enlarged intersection map. The green bar gets shorter as your vehicle approaches a turning point.

(15) Next direction of travel*
When you approach a guidance point, it appears green.

(16) Direction line*
The direction towards your destination (or scroll cursor) is indicated with a straight line.

(17) Memory navi indicator

➲ About memory navi indicator ➞ Page 139

(18) Lane information*
Lane information is displayed the first time there is a voice guidance on your route. When the guidance screen is displayed near an interchange or exit, the lane information disappears.

(19) Freeway signs*
These show the road number and give directional information.

(20) Freeway exit information*
Displays the freeway exit.

❒ Information with the mark (*) appears only when the route is set.

❒ Depending on the conditions and settings, some items may not be displayed.

Changing the scale of the map

Touching or allows you to change the map scale. Touch and holding or allows you to change the scale in smaller step within a range of 25 yards to 1000 miles (25 meters to 2000 kilometers). When the view mode is set to **Map View** or **Guide View**, “Direct scale key” is displayed. Touching “Direct scale key” changes the map to the selected scale directly.

❒ In memory navi mode and/or when traversing an area not stored on the disc, selection of the scales is limited.

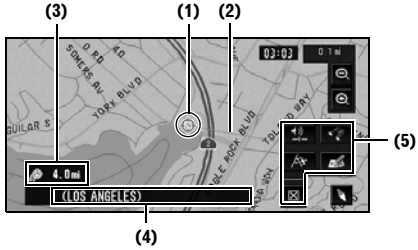
❒ The icon of a registered location and the traffic information icons are displayed when the map scale is 10 miles (20 km) or lower.

❒ POI icons and the line for traffic congestion and traffic flow are displayed when the map scale is 0.75 mile (1 km) or lower.

Moving the map to the location you want to see

If you touch the display briefly, the shortcut menu appears.
Touching anywhere on the map for at least 2 seconds changes the map to Scroll mode and the map begins scrolling in the direction you touched. The scrolling stops when you release your finger from the screen. At this time, the scroll cursor appears at the center of the screen. Also a line connecting between the current location and scroll cursor appears.
Pressing the **MAP** button returns you to the map of your surroundings.

❒ Touch the area close to the center of the screen to scroll slowly. Touch near the sides of the screen to scroll quickly.



(1) Scroll location
The position of the scroll cursor shows the location selected on the current map.

❒ When the scale is 0.25 mi (200 m) or lower, the road appears light blue in the vicinity of the scroll cursor.

(2) Direction line
The direction towards the scroll cursor is indicated with a straight line.

(3) Distance from the current location
The distance in a straight line between the location indicated by the scroll cursor and your current location.

(4) The street name, city name, area name and other information for this location.
(The displayed information varies according to the scale.)
Touching the ▷ on the right displays hidden text.

➲ Displaying information on the specified location → Page 41

(5) Shortcut menu

➲ How to use shortcut menu → Page 36

Viewing the information of a specified location

An icon appears at registered places (home location, specific places, address book entries) and places where there is a POI icon or traffic information icon. Place the scroll cursor over the icon to view detailed information.

1 Scroll the map and move the scroll cursor to the icon you want to view.

2 Touch .

Information for a specified location appears. The displayed information varies according to the location. (There may be no information for that location.)

➲ Registering places → Page 55
➲ "Displaying Certain POI on the Map" → Page 50
➲ "Confirming traffic information on the map" → Page 60

3 Touch "Back".
You are returned to the previous display.

❒ In the memory navi mode, you can only see detailed information for registered points (when available).

Finding a destination on the map

If you search the location you want to visit by scrolling the map, touch in the Shortcut menu to specify your destination on the map.

1 Press the MAP button to access the map screen.

2 Touch the map for at least 2 seconds.
The map display changes to Scroll mode.

3 Scroll the map and move the scroll cursor to the place you want to make your destination.

➲ Moving the map to view the part you want to see → Page 40

4 Touch .

When appears to the right of the list

You can also set a destination by touching to the right of the destination list such as the Address Book. Touch "**OK**" to confirm. The location indicated by the scroll cursor will be set as a destination.

Scroll:
The map display changes to with Shortcut menu. If you touch anywhere on the map, the map display changes to Scroll mode.

➲ Shortcut menu → Page 36

Setting a Route to Your Destination

⚠ CAUTION

- **For safety reasons, these route-setting functions are not available while your vehicle is in motion. To enable these functions, you must stop in a safe place and put on the parking brake before setting your route (see page 13 Interlock for details).**

❒ Some information on traffic regulations depends on the time when the route calculation is performed. Thus, the information may not correspond with a certain traffic regulation when your vehicle actually passes the location. Also, the information on the traffic regulations provided will be for a passenger vehicle, and not for a truck or other delivery vehicles. Always follow the actual traffic regulations when driving.

❒ If you press the **MENU** button during route calculation, the calculation is canceled and the map display appears.

❒ Inserting the DVD Map Disc will cause a forced reroute. (This rerouting cannot be canceled.)

Finding Your Destination by Selecting the Type of Facility

Information about various facilities (Points Of Interest - POI), such as gas stations, amusement parks or restaurants, is available. By selecting the category (or entering the POI Name), you can search for a POI.

Searching for Points of Interest (POI)

1 Touch "Destination" in the NAVI MENU, and then touch "POI Search".

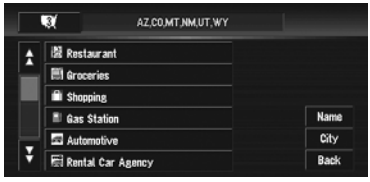
2 Touch the zone code key of the destination and touch "OK".

➲ Selecting the zone where you want to search ➞ Page 29

3 Touch "Category".

"Name":
Touch if you wish to first specify the POI Name.
"City":
Touch if you wish to first specify the destination city or area.

4 Touch the desired category.



If the category is not sub-divided into more detailed categories, the list will not be displayed. Proceed to Step 6.

5 Touch the subcategory.

6 Input the name of the POI.
If the list does not automatically appear when the name of the POI has been entered, try touching "**OK**".

"City":
Touch to specify the destination city or area.

❒ If less than six POIs in a subcategory are available, the screen for inputting the POI name is skipped. Please proceed to Step 7.

7 Touch POI for your destination.

❒ Touching displays a map of the surroundings of the selected POI.

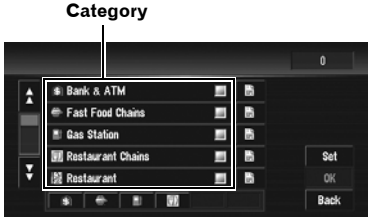
➲ "When appears to the right of the list" → Page 41

Finding a POI in your surroundings

You can search for Points Of Interest in your surroundings on the map. Use it to find a POI to visit during a journey.

1 Touch "Destination" in the NAVI MENU, and then touch "Vicinity Search".

2 Touch the desired category.



The selected category will have a red check mark.

OK:
Starts searching.

Back:
Returns to the previous screen.

Set:
Display the screen for registering POI shortcuts.

➲ Register POI shortcut → Page 51

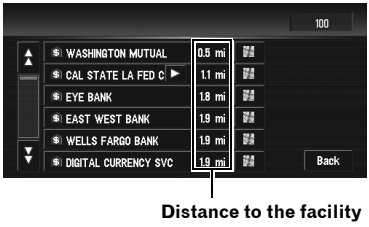
❒ If you touch one of the POI shortcuts (e.g.), you can start searching POI directly for the selected category on the POI shortcut.

❒ If you want to search for facilities by using both marked category and POI shortcuts, select some categories in the list and then touch the POI shortcut to start searching.

❒ If you want to search with more detailed categories, touch . When the subcategory list appears, touch the item and touch "**Back**". When only a few types of the detailed categories are selected, blue check marks will appear.

❒ You can select from the detailed category for up to 100 items.

3 Touch "OK".
Names of POIs and their distance from your current location appear. They are listed in order from nearest to farthest.



❒ When you touch , the POIs around the specified location are shown on a map.

➲ "When appears to the right of the list" → Page 41

❒ Searching range is approximately 10 miles (16 km) square from the current location.

Searching the facilities around the scroll cursor

1 Scroll the map and move the scroll cursor to the place where you want to search for POI.

2 Touch .
See Step 2 of "Finding a POI in your surroundings" for the following operations.

➲ "Finding a POI in your surroundings" → Page 44

❒ This can be used when setting the Vicinity Search icon to display as a shortcut on the map screen.

➲ Changing Shortcut → Page 74

❒ The distance indicated in the search result is the distance from the scroll cursor to the facility.

❒ The bottom icons are for shortcuts to your favorite categories. Touching a shortcut icon displays a list of the facilities in the category.

❒ "**Vicinity Search**" in the NAVI MENU searches your surroundings. On the other hand, when using in the Shortcut menu (→ Page 36), the area around the scroll cursor will be searched.

Setting an Entrance or Exit of a Freeway as Your Destination

You can set the entrance or exit of a freeway as your destination.

1 Touch "Destination" in the NAVI MENU, and then touch "Freeway Search".

2 Touch the zone code key of the destination and touch "OK".

3 Enter the name of the freeway and touch "OK".

4 Touch the freeway.
The display for selecting your destination to the entrance or to the exit of the freeway appears.

5 Touch "Entrance" or "Exit".
The list of entrances to, or exits from, the selected freeway appears.

6 Touch your destination.

❒ You can also see the destination by touching the on the right of the list.

➲ "When appears to the right of the list" → Page 41

Searching for Your Destination by Specifying the Telephone Number

If you know the telephone number of your destination, you can quickly search for your destination by specifying the telephone number.

1 Touch "Destination" in the NAVI MENU, and then touch "Telephone Search".

2 Input a telephone number.

❒ If there is more than one place for the number input, a list of those places is displayed. Touch the item you want in the list and proceed to step 3.

3 If the displayed place is satisfactory, touch "OK".
Touching "**Scroll**" changes the destination.

➲ Searching the destination by map → Page 41

Route Calculation to Your Home Location or to Your Favorite Location

If your home location is registered, the route home can be calculated by a single touch of the touch key from the NAVI MENU. Also, you can register one location, such as your workplace, as your favorite location, and the route is calculated in a similar way.

1 Touch "Destination" in the NAVI MENU, and then touch "Return Home" or "Go to".

➲ "Registering your home and your favorite location" → Page 55

Selecting Destination from the Destination History and Address Book

Any place that has been searched before is stored in the "**Destination History**". Places that you have registered manually, such as your home, are stored in the "**Address Book**". Simply select the place you want to go to from the list and a route to that place will be calculated.

➲ For information on the **Address Book** → Chapter 4

➲ For information on the **Destination History** → Chapter 4

1 Touch “Destination” in the NAVI MENU, and then touch “Address Book” or “Destination History”.

2 Touch your destination name.

Route calculation starts.

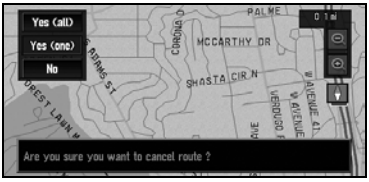
- ❒ You can also see the destination by touching on the right of the list.
- ➲ “When appears to the right of the list” → Page 41

Canceling the Route Guidance

If you no longer need to travel to your destination or if you want to change your destination, follow the steps below to cancel the route guidance.

1 Touch “Destination” in the NAVI MENU, then touch “Cancel Route”.
The message confirming whether to cancel the current route appears.

2 Touch “Yes (all)”.



The current route is deleted, and a map of your surroundings reappears.

Yes (one):
Route is recalculated by canceling the selected way point.

No:
Returns to the previous display without deleting the route.

- ❒ You can also cancel the route using the **Change Route** in the shortcut menu.

Checking the Set Route

You can check information about the route between your current location and your destination.
You can select from the following methods: checking the passing streets with a list, checking the shape of the route by scrolling the map along the route, and checking the entire distance of the route in a single screen.

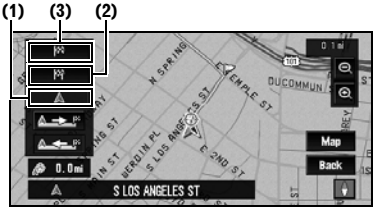
Checking the set route with the map

1 Touch “Route Options” in the NAVI MENU, then touch “View Current Route”.

- ❒ “**View Current Route**” is active only when the route is set.
- ❒ You can also see the location by touching the on the right of the list.

2 Touch “Scroll”.
The screen to selecting the point to start scrolling appears.

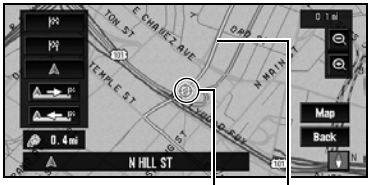
3 Touch the point to start scrolling.



You can select the following items:
(1) Starting Point
(2) Way Point (If this is set)
(3) Destination

- ❒ If there are multiple way points, selecting “**Way Point**” displays a list of the way points on the route. Touch the place you want to start scrolling from and proceed to step 4.

4 Touch or to scroll the map.
To continue scrolling after you release your finger, touch and hold or .
If necessary, the scale of the map can be changed.



Scroll Cursor

Current Route

Map:
The scroll screen is displayed.

➲ "When appears to the right of the list" → Page 41

5 Touch "Back".
You can return to the previous display.

Checking the set route by text

This function is not available if your vehicle has deviated from the set route.

❒ When **Profile** is selected during the memory navi mode, information is displayed up to the location where the route is stored in memory.

1 Touch "Route Options" in the NAVI MENU, then touch "View Current Route".

❒ "**View Current Route**" is active only when the route is set.

❒ You can also see the location by touching on the right of the list.

2 Touch "Profile".

3 Check the contents on the display.
Scroll the list as necessary.

Name of the streets you are driving through

Driving distance

4 Touch "Back".
You can return to the previous display.

❒ When a long distance route is calculated, your navigation system may not be able to list all the roads. (In this case, the remaining roads will be shown in the list as you drive on.)

Checking the entire route overview

You can check the entire shape of the current route.

❒ When **View Current Route** is selected during the memory navi mode, the information is displayed up to the location where the route is in memory.

1 After touching "Route Options" in the NAVI MENU, touch "View Current Route".

❒ "**View Current Route**" is active only when the route is set.

❒ You can also see the location by touching on the right of the list.

2 Touch "Overview".
A map of the whole route up to the destination is displayed.

❒ You can also check the overview by using the shortcut menu if "**Whole Route Overview**" is selected on the "**Short-Cut Selection**".

Checking the set route from the shortcut menu

You can also check the information about the set route from the shortcut menu.

1 Touch the map screen.
The Shortcut menu appears.

2 Touch .

3 Touch "Route Profile" or "Route Scroll".

➲ "**Route Profile**" → Page 47 (Step 3 and 4)

➲ "**Route Scroll**" → Page 46 (Step 3 and 4)

4 Touch "Back".
You can return to the previous display.

Recalculating the Route to Your Destination

You can set the length of the area, avoid just a certain area, or you can even search a new route from the current location to your destination.

Recalculating the route to the destination using the Route Options menu

1 Touch "Route Options" in the NAVI MENU, and then touch "Recalculate".
This option automatically searches the route to the destination again.

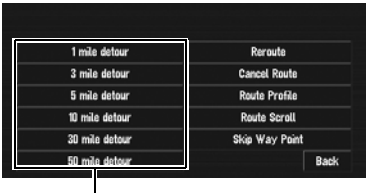
- ❒ "**Recalculate**" is active only when the route is set.
- ❒ You can also recalculate (reroute) your route using the **Change Route** in the shortcut menu.

Recalculating a specified distance in the route ahead of your current position

1 Touch the map screen.
The Shortcut menu appears.

2 Touch .

3 Touch the distance from the list.



Detour distance

Searches detours for a specified distance in the route ahead of your current position. After the route is calculated, the map screen shows your surroundings and route guidance is resumed.

Editing Way Points to the Current Route

You can select way points (locations you want to visit on the way to your destination) and you can recalculate the route to pass through these locations.

Editing a way point

Up to 5 way points are selected, and selected points can be sorted automatically or manually.

- ❒ "**Edit Current Route**" is active only when the route is set.

1 Touch "Route Options" in the NAVI MENU, and then touch "Edit Current Route".

2 Select editing method.

- ❒ You can also see the location by touching on the right of the list.

Add:
Switch the display to search for points. After searching for a point, display it on a map, then touch "**OK**" to add to the way points. (You can add up to five way points in total.)

Delete:
You can delete way points from the list.
(You can delete way points successively.)

Sort:
Touch to display a screen listing the way points. Touching or on the left of the list allows you to sort the way points manually.

Automatic:
You can sort the destination and way points automatically. The system will show the nearest way point (distance in a straight line) from the current location as way point 1, and sort the other points (including your destination) in order of distance from your current location.
Original:
Returns to the original order.

Select from manual order, "**Automatic**" or "**Original**" and touch "**Done**" to start the route search.

3 Touch "Done".

❒ If you set a way point(s) in the route to your destination, the route up to the next way point will appear light green. The rest of the route will be light blue.

Skipping a way point

If the points are set, the next way point along the route can be skipped.

1 Touch the map screen.
The Shortcut menu appears.

2 Touch .

3 Touch "Skip Way Point".
A message asking whether you want to skip the next way point appears.

4 Touch "Yes".
A new route to your destination through all the remaining way points, except for the skipped way point, is calculated.

Setting Areas to Avoid

If you register **Areas to Avoid**, such as crowded intersections or congested areas, routes can be calculated that avoid those areas.

❒ An area not stored on the disc cannot be set as an Area to Avoid.

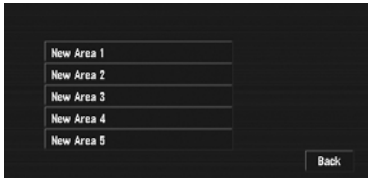
Registering an area to avoid

This section describes how to register an Area to Avoid for the first time. You can register up to five Areas to Avoid.

1 Touch "Route Options" in the NAVI MENU, then touch "Designate Areas to Avoid".

2 Touch "Yes".

3 Select one of the items shown in "New Area".
When registering for the first time, any item on the list is shown as "**New Area**".



4 Select the place to register and display the map.

➲ Address Search ➞ Page 28
➲ Searching places to register ➞ Page 43 to 45

Once a search is complete, a map with the specified location at its center appears.

❒ If you select the "**Map Search**", move the scroll cursor to the place you want to set and touch "**OK**".

5 Change the map scale and decide the size of the Area to Avoid.
The Area to avoid is enclosed in a red frame. You can also change the map scale though the maximum map scale for registering Areas to Avoid is 0.1 mile (100 m).

6 Scroll the map, adjust the position of the red frame, and touch "OK".

If you want to stop registration, touch "**Back**".

❒ Depending on the setting of route search conditions, you may not be able to avoid the specified areas. A confirmation message is displayed on the screen at this time.

➲ Information on route calculation conditions → Page 53

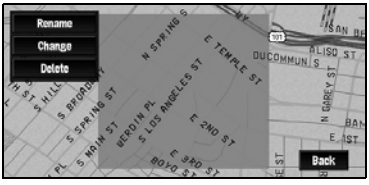
Changing or deleting an area to avoid

You can subsequently change/rename/delete an Area to Avoid.

1 Touch "Route Options" in the NAVI MENU, then touch "Designate Areas to Avoid".

2 Select the area you want to change or delete.

3 Select the desired operation.



Rename:
Changes the name. Enter the new name and touch "**OK**". This returns you to the Route Options menu.
Change:
A specified area can be changed. For the next steps, see Step 3 in the "Registering an area to avoid" above.
Delete:
Delete the selected Area to Avoid.

Displaying Certain POI on the Map

POI in a certain category can be shown on the map, and you can check the location on the display.

1 Touch "Info/Traffic" in the NAVI MENU, then touch "Overlay POI".

2 Touch the category you want to display.
The selected item is marked. If you want to select other categories, repeat this step.

❒ If you want to display more detailed categories, touch . When the subcategory list appears, touch the item you want to display and touch "**Back**".

❒ When some sub-categories are selected, the corresponding category is marked blue. When all the sub-categories within a category are selected, that category is marked red.

❒ You can use up to 100 categories of the detailed categories for "**Overlay POI**"

❒ If you touch one of the POI shortcuts (e.g.), you can start searching for POI directly in the selected category on the POI shortcut.

3 Press the "MAP" button.
POI's in the selected category appear on the map.

❒ You can also display POI by using the shortcut menu if "**Overlay POI**" is selected on the "**Short-Cut Selection**".

Registering/deleting POI Shortcuts

You can register up to six shortcuts to your favorite POI. You can also change or delete the registered shortcuts.

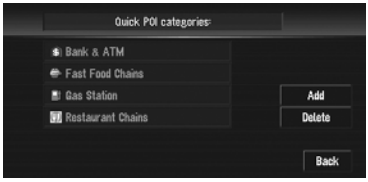
Registering a POI shortcut

1 Touch "Destination" in the NAVI MENU, and then touch "Vicinity Search".

2 Touch "Set".

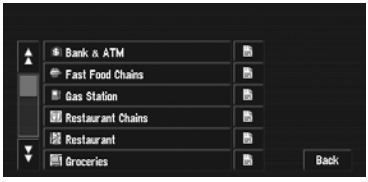
Displays a list of already registered POI shortcuts.

3 Touch "Add".



Displays a POI category list.

4 Touch category or .



Touching a category adds that category to the shortcuts. After touching , please proceed to Step 5 and select a subcategory.

5 Touch subcategory.
The selected category is added to the list of POI.
When registering another icon, repeat steps 3 through 5.

❒ You can register a POI shortcut by touching "**Overlay POI**" under "**Info/Traffic**" in the NAVI MENU, or by touching the icons such as and on the map. The steps for registration are the same as described above.

Deleting a POI shortcut

1 Touch "Destination" in the NAVI MENU, and then touch "Vicinity Search".

❒ You can also touch in the shortcut menu or "**Info/Traffic**" in the NAVI MENU, then touch "**Overlay POI**".

2 Touch "Set".

3 Touch "Delete".
Displays a list of already registered POI shortcuts.

4 Touch the category to be deleted.
A red check appears on the selected shortcut.
All:
A red check will appear on all registered categories.

5 Touch "Delete".
Deletes the selected shortcut from the list.

Modifying the Route Calculation Conditions

You can change the route calculation conditions using the Route Options menu. The following description features an example of changing the number of routes to be searched.

1 Touch "Route Options" in the NAVI MENU.

2 Touch "Number of Routes".
The current settings appear under the name of the item. Each time you touch the item, the setting changes. Repeatedly touch the item until the value you want to set appears.

Items that users can operate

This section describes the details of the each time. Settings marked with an asterisk (*) show that they are default or factory settings.

Edit Current Route

This displays a screen for adding or deleting way points. The method is the same as described in "Editing Way Points to the Current Route".

❒ "**Edit Current Route**" is displayed only when the route is set.

➲ "Editing Way Points to the Current Route" ➞ Page 48

View Current Route

➲ "Checking the set route with the map" ➞ Page 46

➲ "Checking the set route by text" ➞ Page 47

➲ "Checking the entire route overview" ➞ Page 47

Recalculate

Automatically searches the route to the destination again.

❒ "**Recalculate**" is displayed only when the route is set.

➲ "Recalculating the route to the destination using the Route Options menu" ➞ Page 48

Number of Routes

This setting controls whether the system should calculate only one route, or several routes.

1*:
Only one route judged as being optimum by your navigation system is calculated.

Multiple:
Several route options are calculated (maximum 6 routes).

Route Condition

This setting controls whether the route should be calculated by taking into account the time or the distance.

Fast*:
Calculate a route with the shortest travel time to your destination as a priority.

Short:
Calculate a route with the shortest distance to your destination as a priority.

Avoid Freeway

This setting controls whether freeways may be included in the road calculation. (A route using a freeway may be calculated in some cases, such as when setting your destination far away.)

On:
Calculate a route that avoids freeways.

Off*:
Calculate a route that may include freeways.

Avoid Ferry

This setting controls whether ferry crossings should be taken into account.

On:
Calculate a route that avoids ferries.

Off*:
Calculate a route that may include ferries.

❒ The system may calculate a route that includes ferries even if "**On**" is selected.

Avoid Toll Road

This setting controls whether toll roads (including toll areas) should be taken into account.

On:

Calculate a route that avoids toll roads (including toll areas).

Off*:

Calculate a route that may include toll roads (including toll areas).

❒ The system may calculate a route that includes toll roads even if "**On**" is selected.

Designate Areas to Avoid

➲ About Areas to Avoid ➞ Page 49

Perform the route calculation for several route options, and select one

You can get route calculations for several route options. After route options are calculated, select the one you want.

1 Set the "Number of Routes" to "Multiple".

2 Search your destination and set the route.

Calculated routes are shown in different colors (from two to six routes).

3 Touch "Next" to change the displayed route.

The following information is displayed on this screen:

(1) Route calculation condition

Displays the conditions set by the Route Options menu by icon.

- Use/avoid freeway
- Use/avoid toll road
- Use/avoid ferry

Displays the inability of fulfill the conditions by icon.

- Pass through Area to Avoid
- Use toll road although the setting "**Avoid Toll Road**" is "**On**".
- Use Ferry although the setting "**Avoid Ferry**" is "**On**".

(2) Distance to your destination

(3) Travel time to your destination

❒ The "**Avoid Freeway**" setting may not be reflected, depending on the distance to the destination.

❒ You can see other places while displaying a possible route by scrolling the map. Touching "**Next**" moves the next candidate route to the center and indicates the map.

4 Touch "Information" to check the information on the selected route.

You can also check details of the roads along the selected route. (If you touch "**Back**", you can return to the previous display.)

➲ "**Route Scroll**" ➞ Page 46 (Step 3, 4 and 5)

➲ "**Route Profile**" ➞ Page 47 (Step 3 and 4)

❒ After the route is calculated, it may take some time until the detailed route information (Route Profile) is displayed.

5 Touch "OK".

The route you selected is accepted, and the map of your surroundings appears. When you start driving, the route guidance begins.

❒ If the above operations are not performed within 30 seconds after the route calculation is completed and you have already started your vehicle, the route selected at the time is automatically chosen.

Editing the Navigation Utilities

⚠ CAUTION

- **For safety reasons, you cannot use some of these navigation functions while your vehicle is in motion. To enable these functions, you must stop in a safe place and apply the parking brake (see page 13 for details).**

Editing Registered Locations

The **Address Book** can store up to 300 registered locations. These can include home location, favorite places and destinations you have already registered. This registered location information can also be modified. Also, routes to registered locations can be calculated by touching the screen. Registering places you visit frequently saves time and effort.

❒ The Address Book is automatically updated in alphabetic order. However, "**Return Home**" and "**Go to**" always appear at the top.

Registering your home and your favorite location

Of the 300 registered locations that can be stored, home location and favorite locations can be stored separately in the **Address Book**. Registering your favorite location for the first time is described here. You can change the registered information later. You might find it useful to register your workplace or a relative's home as your favorite location.

Map icons:

:
Home location icon

:
Favorite location icon

1 Touch "Settings" in the NAVI MENU, then touch "Defined Locations".

2 Touch "Set "Go To"".
When registering your home location, touch "**Set "Home"**".

❒ The items already registered under "**Return Home**" or "**Go to**" can be modified.

3 Search for a location to register.
You can select a method of location search on the display.

➲ Address Search ➞ Page 28

➲ Information on searching locations to register ➞ Page 43 to 45

❒ If you select "**Map Search**", move the scroll cursor to the location you want to set and touch "**OK**".

4 Point the scroll cursor to the location you want to register and touch "OK".

5 Touch "Save".
Completes the registration.

Registering a previous location in the Address Book

Once a destination or way point is searched, it is automatically retained and stored in the **Destination History**. If a search is canceled while still in progress, only the places where the map was displayed and scrolled through or places where the shortcut menu was displayed are retained and stored. Note that after 100 places are stored, new places are automatically overwritten on top of old ones, in order from oldest to most recent. Therefore, to ensure that certain places are kept and not overwritten, be sure to register them in the **Address Book**.

1 Touch "Destination" in the NAVI MENU, then touch "Destination History".

2 Touch on the right-hand side of the place you want to register in the Address Book.

:
The map of that place can be displayed.

➲ "When appears to the right of the list" ➞ Page 41

3 Touch "Registration".

4 Touch "Save".
Registration is now complete.

❒ If you want to stop registration, touch "**Back**".

➲ "Editing a location's information" ➞ Page 56

Editing a location's information

In the Address Book menu, touching the on the right-hand side of the place displays the Address Book Operate menu.
To edit the information about the location:

1 Touch "Destination" in the NAVI MENU, then touch "Address Book".

2 Touch on the right-hand side of the place whose information you want to edit.

:
The map of that place can be displayed.

➲ "When appears to the right of the list" ➞ Page 41

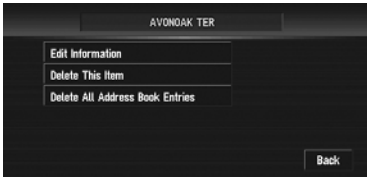
Add:
The screen for selecting the method for registering the location in the Address Book appears.

➲ Address Search ➞ Page 28

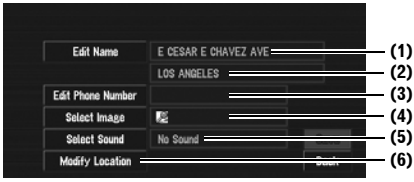
➲ Searching places to register ➞ Page 43 to 45

❒ If you select "**Map Search**", move the scroll cursor to the place you want to set and touch "**OK**".

3 Touch "Edit Information".



The Address Information menu appears. Refer to the item corresponding to the subsequent operation. After finishing the operation, the Address Book menu appears. You can continue to edit other information items if necessary.



(1) Name
You can enter the desired name.
(2) Name (2nd line)
The name of the city appears in this column (not editable).
(3) Phone number
You can search by registered telephone number.
(4) Pictograph
The symbol displayed on the map.
(5) Sound
The selected operating sound is played.
(6) Modify Location
You can change the registered location by scrolling the map.

4 Touch "Save".
Completes the registration.

Changing a name

1 Touch "Edit Name".

2 Enter a new name; touch "OK".
The name of the current location appears in the text box. Delete the current name, and enter a new name between 1 and 23 characters long.

3 Touch "Save".
The details you set are registered.

❒ You cannot change the name of your home.

Entering or changing a phone number

1 Touch "Edit Phone Number".

2 Input a phone number and touch "OK".
The Address Information menu appears.
❒ To change a registered phone number, delete the existing number and then enter a new one.

Selecting a pictograph to appear on the map

1 Touch "Select Image".

2 Touch the Pictograph to appear on the map.
The Address Information menu appears.
❒ You cannot change the mark of your home and your favorite location.

Selecting sound

1 Touch "Select Sound".

2 Select the sound.
The Address Information menu appears.
❒ If you want to hear the operating sound, touch .

Modify the location

➲ Changing the position of locations → Page 58

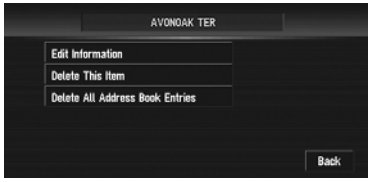
Deleting Address Book or Destination History information

Items registered in the **Address Book** or **Destination History** can be deleted. All entries of the data in the **Address Book** or **Destination History** can be deleted at once.

1 Touch "Destination" in the NAVI MENU, then touch "Address Book".
To delete items in the **Destination History**, touch "**Destination History**".

2 Touch on the right-hand side of the place you want to delete.

3 Select the deletion method.



Delete This Item:
Delete the location selected in Step 2.

Delete All Address Book Entries (or Delete All Destinations):
Delete all the Address Book or Destination History data.

4 Select "Yes".
The data you selected is deleted.

Alternative option:
No:
The display shown in Step 3 appears.

❒ Because deleted data cannot be restored, take extra care not to select "**Delete All Address Book Entries**" and "**Delete All Destinations**" by mistake.

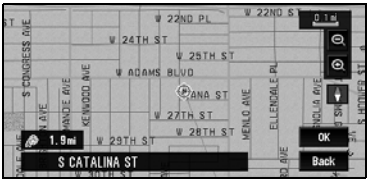
Changing the position of locations registered in the Address Book

You can select a location registered in the **Address Book**, display a map of its surroundings and change its position.

1 In the Address Book menu, touch on the right-hand side of the place whose position you want to change.

2 Touch "Edit Information", and then touch "Modify Location".
The map of the selected area and its surroundings appears.

3 Touch the display to change its position, then touch "OK".



4 Touch "Save".
The position is changed.

Loading registered locations data from a Disc

Address Book data stored on a CD-R/-RW and DVD-R/-RW can be loaded to the navigation system.
This function is used when moving Address Book data from a Pioneer navigation system with a PC card slot (e.g., AVIC-88DVD) to a Pioneer navigation system without a PC card slot.

❒ When moving data, copy the folder named "**POINT**" from the PC card to the personal computer. Then use the personal computer to store the "**POINT**" folder in the first level of the CD-R/-RW and DVD-R/-RW.

1 Insert the disc to the disc loading slot.

2 Touch "Settings" in the NAVI MENU, then touch "System Options".

3 Touch "Read from Disc".
The list of groups appears.

4 Touch the desired group.

5 Touch the desired locations.
Selected locations are marked. To load the data from other locations, repeat this step.
Alternative option:
All:
All the locations are selected (or canceled) at once.

6 Touch "OK".
The data of the selected locations is stored in the Address Book.

Using XM NavTraffic Information

If you have a GEX-P10XMT XM Digital Satellite Data & Audio Receiver (sold separately) attached to the navigation system, and have an active subscription to XM NavTraffic service, you can view current traffic conditions and information on your navigation display. When the unit receives updated traffic information, the navigation system will overlay the traffic information on your map, and also display detailed text information when available. When you are traveling along a route and there is traffic information on your current route, the system will automatically detect it, and ask you if you would like to be rerouted. (In such case, route calculation takes into consideration about 90 mile radius of alternative routes and its traffic conditions from your current location).

❒ The term “traffic congestion” in this section indicated the following types of traffic information: stop and go, stopped traffic and closed/ blocked roads. This information is always taken into consideration when checking your route, and the information related with these events cannot be turned off. Additionally, the system also takes into consideration the traffic flow information if “**Use the traffic flow information**” is “**On**”.

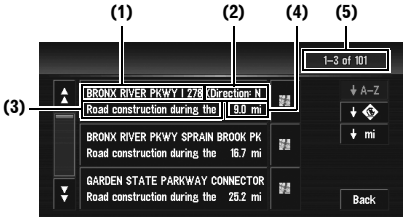
Viewing traffic list

Traffic Information is displayed onscreen in a list. This allows you to check how many traffic incidents have occurred, their location and their distance from your current position.

Checking all traffic information

1 Touch “Info/Traffic” in the NAVI MENU, then touch “Traffic Events”.
The list with received traffic information is shown.

2 Touch ▽ or △ to view the incident list.
Places (street names) where incidents have occurred are displayed in the list.



(1) Street or place
(2) Direction
(3) Incident
(4) Distance to the location
(5) The incident numbers currently displayed and the total number of incidents

❒ The incidents that have already been read will be displayed in letters with a white outline. Unread incidents will be in white.

❒ Touching the map icon allows you to check the place on a map. (Traffic information without positional information cannot be checked on a map.)

A–Z :
You can sort the traffic information in alphabetical order.

◈ :
You can sort the traffic information according to the incident.

mi :
You can sort the traffic information by distance from your current position.

Refresh :
When new traffic information is received, current information is changed or old information has been removed, the list is updated to reflect the new situation.

3 Select an incident you want to view in detail.
The details of the selected incident are displayed.

❒ Touching an incident you want to see allows you to view the detailed information of the incident. If the information cannot be displayed on one screen, touch ▽ or △ to view the remaining information.

4 Touch “Back” to return to the list with traffic information.
A list with traffic information appears again.

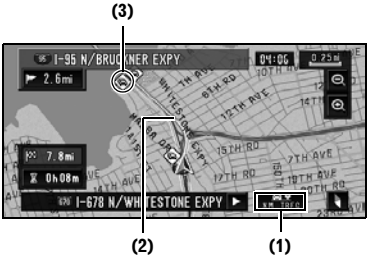
Checking traffic information on the route

1 Touch "Info/Traffic" in the NAVI MENU, and then touch "Traffic On Route".
The currently set traffic information on the route appears on the screen.

- ❒ The method for checking the content displayed on the screen is the same for "Checking all traffic information".
- ➲ "Checking all traffic information" ➞ Page 59

Confirming traffic information on the map

The traffic-related information displayed on the map is as follows.



XM TRFC (or , XM TRFC):

(1) TRAFFIC icon
When a route has been calculated, touch to check whether there is any traffic congestion information on your route. When no route has been calculated, touch to display the traffic list.

- ❒ When is displayed, reading from the DVD Map Disc is required. Please insert the DVD Map Disc.
- ❒ When XM TRFC is displayed, the data is being loaded from the DVD Map Disc.

(2) A line to indicate the length of the traffic congestion
Displayed only when the scale on the map is 0.75 mile (1km) or lower.

Traffic congestion:
Orange with white outline: stop and go traffic
Red with white outline: stopped traffic
Black with white outline: closed/blocked roads

(3) Icon for traffic information
Displayed only when the scale on the map is 10 mi (20 km) or lower.

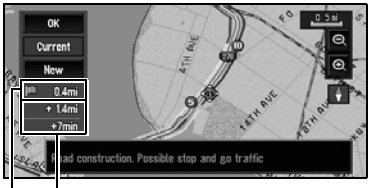
- ➲ "Selecting traffic information to display" ➞ Page 62

If you want to check the traffic information details, move the scroll cursor onto an icon such as and touch . This allows you to view place names and other information.

Information on avoiding traffic congestion on route ahead

If you are approaching traffic on your current route, the navigation system has the ability to recommend an alternative route. Depending on the information of traffic congestion you have received and the setting of Use traffic flow information, the navigation system will recommend an alternate route automatically. On the freeway, the navigation system will detect at least 1.6 miles (2.6 km) ahead of the specific traffic incident.
If a better route can be calculated, the following screen will appear.

- ❒ The following types of traffic incidents on the route will be checked: stop and go, stopped traffic and closed/blocked roads.



Difference in distance and travel time between existing route and new route

Distance from the current position of your vehicle to the point of entry into the new route

On this screen, you can select the following items:

New:
A new route is displayed on the screen.
Current:
The current route is displayed on the screen.
OK:
Select the route to that displayed on the screen.

❒ When no selection is made, the current route will be automatically selected after a short while.

When checking traffic congestion information manually

Touching XM TRFC on the screen allows you to check for traffic congestion information on your route.
If there is any information about a traffic congestion on your route, a message appears asking you whether to search for another route to avoid the traffic congestion. If there is no traffic congestion information along the route being guided, it is announced on screen and by voice.

❒ The following types of traffic incidents on the route will be checked: stop and go, stopped traffic and closed/blocked roads.

If there is a traffic congestion information on the route

When receiving information about a traffic congestion, the message announcing the presence of a traffic congestion is indicated.
On this screen, you can select the following items:
Yes:
The route is recalculated taking the traffic congestion into account.
No:
The message disappears, and the map display reappears.
List:
The list with traffic information is displayed.

❒ In the memory navi mode, you can only touch **No**.

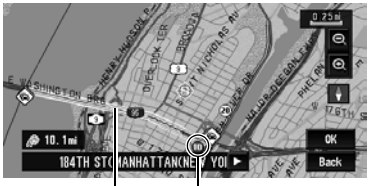
If there is no traffic congestion information on the route

If there is no traffic congestion information, a message appears to inform you that there is no traffic congestion information on the route that is shown.
On this screen, you can select the following items:
List:
The list with all traffic information is displayed.
Back:
The message disappears, and the screen returns to the map screen.

❒ In Memory Navi mode, no detailed information is available for traffic information on **List**.

Traffic flow information

When the map scale is between 0.02 mi (25 m) to 0.75 mi (1 km), red, yellow, or green blinking lines may appear on either side of a road. These colors indicate the average speed at which traffic is flowing along these streets. Here is a guide to the colors and the average speed they indicate:



Flow Icon

The line for traffic flow

Red: average speed in this area is between 5 mph to 15 mph (8 km/h to 24 km/h)
Yellow: average speed in this area is between 20 mph to 40 mph (32 km/h to 64 km/h)
Green: average speed in this area is 45 mph (72 km/h) or faster (An icon without a number indicates the average speed of the road is more than 70 mph (112km/h).)

❒ In addition to these blinking lines, a round icon with a number may appear on the map. The number in the icon indicates the actual average speed of that specific area.

❒ The flow icon appears only when the scale on the map is 10 mi (20 km) or lower.

❒ You can turn off the use of Traffic flow information.

➲ “Set use of Traffic flow information setting to off” → Page 62

Checking traffic flow information on the list

The traffic flow information on the route can also be displayed as an onscreen list.

❒ The method for checking the traffic flow information displayed on the screen is the same for “Checking all traffic information”.

➲ “Checking all traffic information” → Page 59

1 Touch “Info/Traffic” in the NAVI MENU, then touch “Traffic Flow”.

You can use mph instead of in the traffic events list screen. The list with the traffic flow information is shown.
The list will be sorted according to the average speed by touching mph.

Selecting traffic information to display

There are different types of traffic information that can be received via the XM NavTraffic service, and you can select which types will be incorporated and displayed on your navigation system.

1 Touch “Info/Traffic” in the NAVI MENU, and then touch “Traffic Settings”.

2 Touch “Change”.

The names of the displayed traffic information items and a list of icons appears on the screen.

3 Touch the traffic information item to display.

A red check appears next to the selected traffic information.

❒ Touching “**All**” selects all the traffic information.

4 Touch “Done”.

The selected traffic information icon is added to the screen.

❒ Touch “**Back**” to cancel your selection.

❒ The following types of traffic congestion cannot be deselected and are always displayed: stop and go, stopped traffic, and closed/blocked roads.

5 Touch “Back”.

Set use of Traffic flow information setting to off

1 Touch “Info/Traffic” in the NAVI MENU, and then touch “Traffic Settings”.

2 Touch “On”.

The button changes to “**Off**”.

3 Touch “Back”.

❒ If you wish to use the traffic flow information again, touch “**Off**” to turn the button “**On**” in the Traffic Settings screen.

Using the XM Tuner to View Stock, Sports, and Other Information

When an XM tuner (GEX-P10XMT) is connected, you can receive stock price, sports, and other information, and display it onscreen. You may also register favorite information on the navigation system.

Displaying stock prices

This navigation system can display the prices of up to 12 stocks.

1 Touch "Info/Traffic" in the NAVI MENU, and then touch "Stock Info".

The screen displays a list of stock prices.

- ❒ Although the stock price information displayed onscreen is updated every 30 seconds (approx.), these prices are not real-time values.

Registering stocks to be displayed

1 Touch "Info/Traffic" in the NAVI MENU, and then touch "Stock Info".

2 Touch "Add".

3 Input the Ticker text for the stocks you wish to display, then touch "OK".

"Punc":
You can input punctuation such as "!"and ":".
"Oper":
You can input operators such as "+"and "–".

- ❒ The method for inputting the text is the same as for inputting street names.
- ➲ Text input method → Page 29
- ❒ If the input ticker symbol does not match the actual ticker symbol for the stock completely, you may not be able to find it.

Deleting stocks to be displayed onscreen

This navigation system can display the prices of up to 12 stocks. If 12 stocks are already registered, delete as many entries as necessary to add new stocks.

1 Touch "Info/Traffic" in the NAVI MENU, and then touch "Stock Info".

2 Touch "Delete".

3 Touch the ticker of the stock you wish to delete.
A red check appears next to the ticker you touched.

- ❒ To delete all the registered stocks, touch "**All**". Red checks will appear next to all the tickers.

4 Touch "Delete".

5 A message will appear asking you to confirm the deletion. Touch "OK".

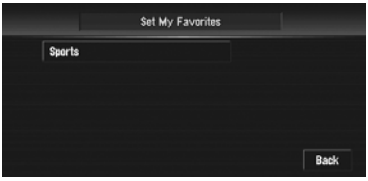
Storing browsable information

- The displayed items depend on the information that is sent from each station.
- "**My Favorites**" can store up to 50 items.

1 Touch "Info/Traffic" in the Main menu, then touch "Set My Favorites".

The screen will display a list of categories. The information appearing onscreen is automatically updated at regular intervals.

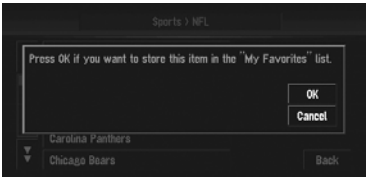
2 Touch a category you want to browse from the list.



3 Touch an item you wish to store.

If an item is divided into more detail categories, select the one from the list to narrow down the category. After narrowing down, a message confirming whether or not to register the item will appear.

4 Touch "OK".



If the storing step is successful, the confirmation screen will appear.
Touch "**OK**" to complete the storing and return to the previous screen.

Displaying favorite browsable Information

XM special contents can be assigned as a shortcut or "**My Favorites**" so that it can be accessed without having to search every time an update is needed. The following are the instructions on how to do so:

1 Store the desired item (topic).

➲ "Storing browsable information" ➞ Page 64

2 Touch "Info/Traffic" in the NAVI MENU, and then touch "My Favorites".

A list of registered items (topics) appears on the screen. Touch the item to display information about this item.

Deleting favorite browsable information

1 Touch "Info/Traffic" in the NAVI MENU, and then touch "My Favorites".

2 Touch "Delete".

3 Touch the name of the items you wish to delete.

A red check appears next to the items you touched.

- To delete all favorite contents, touch "**All**". Red checks will appear next to all the items.

4 Touch "Delete".

5 A message will appear asking you to confirm the deletion. Touch "OK".

Checking the Reception Status of the XM Tuner

The current XM tuner's (GEX-P10XMT) reception status and signal strength appear on screen. (The information that is transmitted via XM DATA cable is displayed in this screen.)

1 Touch "Info/Traffic" in the NAVI MENU, and then touch "XM Status".

(1) Status
Depending on the XM tuner's (GEX-P10XMT) reception status, any one of the following may appear.

OK
No problem.

Updating
Updating encryption code.

Check antenna
Improper antenna connection.

Not Connected

(2) Signal Strength
Depending on the signal strength, any one of the following may appear.

- **Very Strong**
- **Strong**
- **Marginal**
- **Weak**
- **No signal**

(3) Radio ID
The radio ID appears.

❒ If you have subscribed to either XM audio only or XM NavTraffic stand alone, you will see "**Updating**" in the "**Status**". This is because the GEX-P10XMT is constantly checking to see if you have decided to add the other service while your navigation system is turned on. If you subscribe to both services, the appropriate status will be shown in the "**Status**".

Emergency Info

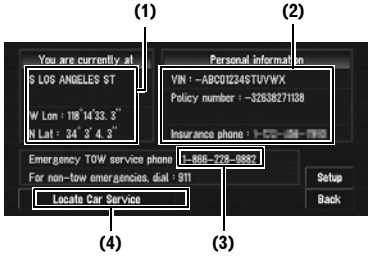
The Emergency Info screen provides important emergency information pertaining to your vehicle, insurance, and current location. Such emergency information could be useful in the event of an accident or vehicle breakdown. The accuracy of the personal information is dependent on the accuracy of the information entered into the navigation system by the user.

⚠ WARNING

- **The Emergency Info screen is only intended to provide information to a driver that may be useful during an emergency situation, and does not replace the need to call for emergency assistance, when necessary.**

Checking the information registered as Emergency Info

1 Touch "Info/Traffic" in the NAVI MENU, and then touch "Emergency Info".



The information registered as **Emergency Info** appears on the screen.

(1) You are currently at:
Your current position is indicated by the street name and your latitude and longitude.

(2) Personal Information:
Your VIN number, insurance policy number, and the telephone number of your insurance company can be displayed once entered by the user.

(3) Emergency TOW service phone:
1 year of free Emergency Roadside Assistance service is available to all registered owners and provided by Signature's Nationwide Auto Club, Inc. The first year of Emergency Roadside Assis-

tance service is paid for by Pioneer only if your navigation system is registered with Pioneer and you sign up on-line with Signature's Nationwide Auto Club, Inc. at the time you register your navigation system with Pioneer. If you have not signed up for this service with Signature's Nationwide Auto Club, Inc., or if your free one-year period has expired, you are subject to charges by Signature's Nationwide Auto Club, Inc. You are also subject to charges by Signature's Nationwide Auto Club, Inc. for roadside services not included in the Emergency Roadside Assistance service. The terms and conditions regarding the Emergency Roadside Assistance service provided by Signature's Nationwide Auto Club, Inc. are determined solely and exclusively by Signature's Nationwide Auto Club, Inc. Please contact Signature's Nationwide Auto Club, Inc. for more information. The telephone number that appears here by default is the toll free number for this service. For additional details on registering for this service, please check your product registration card included with this product. If you are not interested in the free Roadside Assistance service, this number can be edited and replaced by your own roadside assistance telephone number.

❒ The police number is shown as 911 and cannot be changed.

(4) Locate Car Service

➲ "Searching for car service in an emergency" → Page 66

Registering user information

1 Touch "Info/Traffic" in the NAVI MENU, and then touch "Emergency Info".

2 Touch "Setup".

3 Touch the desired item to register your information.

❒ If information is already registered, the registered information will appear.

4 Input the number you wish to register, and then touch "OK".

Edit VIN
Register your Vehicle's Identification Number. (You can enter between 1 and 17 digits.)
Edit Policy number
Register your insurance policy number.

Edit Insurance Phone
Register your insurance company's phone number.
Edit TOW Service Phone
Record a towing company's phone number.

5 Touch "Save".
Completes the registration.

❒ If you want to stop registration, touch "**Back**".

Searching for car service in an emergency

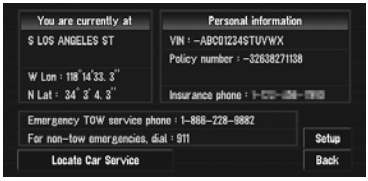
In times of emergency, you can search the Emergency Info for Auto Services in the vicinity of your current position and set the current route.

⚠ WARNING

- **The Emergency Info screen is only intended to provide information to a driver that may be useful during an emergency situation and if they are in a safe location. If not, or in all major accidents, call 911.**

1 Touch "Info/Traffic" in the NAVI MENU, and then touch "Emergency Info".

2 Touch "Locate Car Service".



A list of auto services appears onscreen.

3 Touch the Category of the auto service you wish to use.

A red check appears next to the selected category.

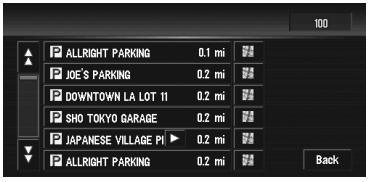
❒ The Auto Service categories that can be selected in the Emergency Info are: "**Automotive**", "**Rental Car Agency**", and "**Car Dealer**".

4 Touch "OK".

A list of names of facilities in the vicinity and the distances from your current position will be displayed.

❒ Touching displays a list of subcategories. Touch the subcategories you wish to use from among those displayed and touch "**OK**" to select the Auto Service from the subcategories.

5 Touch the name of the facility to set the route you want.



Displays the route to the selected facility.

When the appears on the right of the list

You can also set a destination by touching the to the right of the list. Touch "**OK**" to confirm. The location pointed to by the scroll cursor will be set as a destination.

Alternative option:

Scroll:
The map display changes to the map with Shortcut menu.
If you touch anywhere on the map, the map display changes to Scroll mode.

➲ "Shortcut menu" ➞ Page 36

Changing Background Picture

⚠ CAUTION

- **When you burn a CD-R/-RW and DVD-R/-RW, make sure the total data size of the CD-R/-RW and DVD-R/-RW is greater than the amount noted below by storing dummy data or other filler information. Otherwise, the disc may not be recognized by the built-in DVD drive.**
  - **— CD-R/-RW: 1.8 MB**
  - **— DVD-R/-RW: 170 MB**

In the menu operation screen, you can specify a picture for the background. Some pictures are already stored, but you can also use pictures (JPEG format data) created by a personal computer or a digital camera. If you save the pictures to a CD-R/-RW and DVD-R/-RW, you can use them as background pictures. The following three types of background pictures can be changed:

- **Splash Screen**: The screen that appears when the Navigation system starts up.
- **AV Background**: Background for the screen during audio operations or during playback.
- **Navigation Background**: Background of navigation menu screen.

Several background pictures are stored in the Pioneer DVD Map Disc. If you want to use these pictures, insert the Pioneer DVD Map Disc. Here, a method for changing the background picture is described with an example of loading a picture stored on a CD-R/-RW and DVD-R/-RW onto the navigation system as the background picture.

❒ When storing original pictures on a CD-R/-RW and DVD-R/-RW, create a folder named "**PICTURES**" in the CD-R/-RW and DVD-R/-RW, and store the picture files in this folder. Up to 20 picture files can be used in the **PICTURES** folder.

❒ You cannot use a CD-R/-RW and DVD-R/-RW containing MP3/WMA/AAC files or the Audio data part (CD-DA session) for the "**Background Picture Setting**" function.

❒ Only JPEG format (".jpg" or ".JPG") pictures can be used as a background picture.

❒ You can only use standard characters (alphabets of both cases: A-Z, a-z) and numbers (0-9) for the file name of a background picture (international (accented) characters cannot be used).

❒ Pictures up to a maximum of 2 048×1 536 pixels can be used. We cannot guarantee proper operation for a picture bigger than this size.

❒ Progressive format JPEG pictures cannot be used.

1 Insert a disc to the disc loading slot.

2 Touch "Settings" in the NAVI MENU, then touch "System Options".

3 Touch "Background Picture Setting".
The picture selected for each screen is indicated on the right side of "**Splash Screen**", "**Navigation Background**" and "**AV Background**" items.

4 Touch "Splash Screen", "Navigation Background" or "AV Background".

5 Touch "Import from Disc".
The list of the pictures stored in the disc is displayed.
On this screen, you can select the following item:
"Back to Original":
The picture originally used when the system was purchased is selected.

❒ Only when a Pioneer DVD Map Disc is inserted, you can select "**Back to Original**". Only when the CD-R/-RW and DVD-R/-RW is inserted, you can select "**Import from Disc**".

❒ In step 5, touching other than "**Import from Disc**" allows you to select a background image stored on the Pioneer DVD Map Disc.

6 Touch a picture you want for the background.

7 Select how to display the picture.

You can select the following items:

“Center”:

Selected picture is displayed at the center of the screen.

“Repeat”:

Selected picture is repeated in a pattern to cover the whole screen.

The background image starts changing. After a short while, the new background image appears.

- ❒ When you select images stored on the Pioneer DVD Map Disc, you cannot select the layout method.
- ❒ When the picture starts to change, do not turn off the vehicle engine until the message appears to indicate that the picture has finished changing.

8 Touch “Done”.

On this screen, you can select the following items:

“Select another Picture”:

This is selected when you want to change to another picture. Return to Step 5.

“Change another Background”:

Select if you want to successively change the Splash Screen, Audio Operating screen backgrounds or the navigation backgrounds. Return to step 3.

- ❒ When the navigation system is reset, or the language setting is changed, the background picture may change back to the original picture. (There is also a possibility that the system will revert to the original picture for some other reason). If this happens, set the background picture again.

Setting the Vehicle Dynamics Display

You can change the values displayed by the instruments on the left and right of the Vehicle Dynamics Display.

Until the sensor’s initial learning is complete, only the voltage and clock are available.

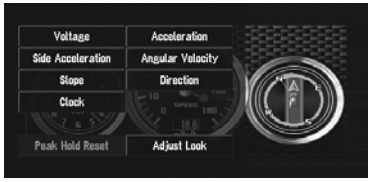
1 Switch to the Vehicle Dynamics Display.

➲ Changing the map display mode → Page 37

2 Touch the left or right instrument.

Touch keys are displayed.

3 Touch the items you want to display.



You can select the following items.

Voltage:

Displays the power supply and voltage supplied from the battery to this system.

Acceleration:

Displays acceleration in a forward direction. The + sign indicates acceleration while the – sign indicates deceleration.

Side Acceleration:

Displays acceleration in a side direction, such as when turning. The + sign indicates a right turn, while the – sign indicates a left turn.

Angular Velocity:

Displays the vehicle’s turning angle over one second (how far it has turned in a second).

Slope:

Displays the vehicle’s vertical movement. The + side represents the rising angle, and the – side the falling angle.

Direction:

Displays the direction your vehicle is traveling in.

Clock:

Displays the current time.

Adjust Look:
Touch "**Adjust Look**" to display a screen for selecting the panel pattern. Touch one of the patterns from among those displayed onscreen to change the panel to the selected pattern.

- ❒ If you touch "**Peak Hold Reset**", the maximum and minimum (green line) values indicated in "**Acceleration**" and "**Side Acceleration**" are reset.
- ❒ You cannot change the speedometer at the center.
- ❒ Selecting Demo Mode in the Settings menu enables you to perform a demonstration with random values.

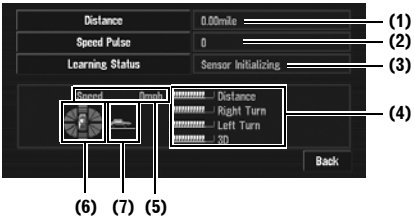
Checking the Navigation Status

The navigation status, including the driving status of a vehicle, positioning status by satellite, learning status of the 3D sensor and cable connection status, can be checked.

Checking sensor learning status and driving status

1 Touch "Settings" in the NAVI MENU, then touch "Hardware Info".

2 Touch "3D Calibration".
The 3D Calibration screen appears.



(1) Distance
Driving distance is indicated.
(2) Speed Pulse
Total number of speed pulses is indicated.
(3) Learning Status
Current driving mode is indicated.
(4) Degree of learning
Sensor learning situations for distance (**Distance**), right turn (**Right Turn**), left turn (**Left Turn**) and 3D detection (**3D Detection**) are indicated by the length of bars.

- ❒ When tires have been changed or chains fitted, turning on the Speed Pulse allows the system to detect the fact that the tire diameter has changed, and automatically replaces the value for calculating distance.
- ❒ If the ND-PG1 is connected, the distance calculation value cannot be replaced automatically.

(5) Speed
Speed detected by the navigation system is indicated. (This indication may be different from the actual speed of your vehicle, so please do not use this instead of the speedometer of your vehicle.)
(6) Acceleration or deceleration/Rotational speed
Acceleration or deceleration velocity of your vehicle is indicated. Also, rotational speed when your vehicle turns to left or right is shown.
(7) Inclination
Degree of slope of the street is indicated.

To clear values...

If you want to delete the learned results stored in "**Distance**", "**Speed Pulse**" or "**Learning Status**", touch the relevant result, then touch "**Clear**".

- ❒ The navigation system can automatically use its sensor memory based on the outer dimensions of the tires.

Checking the connections of leads and installation positions

Check that leads are properly connected between the navigation system and the vehicle. Please also check whether they are connected in the correct positions.

1 Touch “Settings” in the NAVI MENU, then touch “Hardware Info”.

2 Touch “Connection Status”.

The Connection Status screen appears.

(1) Speed Pulse

The Speed Pulse value detected by the navigation system is shown. “0” is shown while the vehicle is stationary.

(2) GPS Antenna

Indicates the connection status of the GPS antenna, the reception sensitivity and from how many satellites the signal is received. If the signal is received correctly, “**OK**” is displayed. If reception is poor, “**NOK**” appears.

(3) Installation Position

The installation position of the navigation system is shown.

If installed correctly, “**OK**” appears. Indicates whether the installation position of the navigation system is correct or not. When the navigation system is installed at an extreme angle exceeding the limitation of the installing angle, “**Incorrect angle**” will be displayed. When the angle of the navigation system has been changed, “**Excessive vibration**” will be displayed.

(4) Parking Brake

When the parking brake is applied, “**On**” is displayed. When the parking brake is released, “**Off**” is displayed.

(5) Power Voltage

The power supply (reference value) provided from the vehicle battery to the navigation system is shown. If the voltage does not fall within the range of 11 V to 15 V, check that power cable connection is correct.

(6) Illumination

When the headlights or small lamps of a vehicle are on, “**On**” is displayed. (If the orange/white lead is not connected, “**Off**” appears.)

(7) Back Signal

When the gear lever is shifted to “R”, the signal switches to “**High**” or “**Low**”. (Which of these is displayed depends on the vehicle.)

Customizing Your Navigation System

⚠ CAUTION

- **For safety reasons, you cannot use some of these navigation functions while your vehicle is in motion. To enable these functions, you must stop in a safe place and apply the parking brake (see page 13 for details).**

Modifying the Default Settings

You can tailor default settings, such as navigation functions and information display, for ease of use.
The following example describes how to change settings. In this example, the "**KM/Mile Setting**" settings is set to "**Mile & Yard**".

1 Touch "Settings" in the NAVI MENU.
The Settings menu appears.

2 Touch "System Options".
The screen changes. "**Mile**" is displayed below "**KM/Mile Setting**", indicating that this function is currently set to "**Mile**".

- ❒ When you touch items with a setting below them, their setting changes. When you touch items with no setting below them, a setting screen appears.
- ❒ Touching "**Back**" switch to **Settings** Menu.

3 Touch "KM/Mile Setting".

"**Mile & Yard**" is displayed below "**KM/Mile Setting**", indicating that "**KM/Mile Setting**" is set to "**Mile & Yard**".
If you want to change another setting, select the item you want to change and repeat the procedure in step 3.

Items Users can Change

This section describes the details of the setting for each item. Settings marked with an asterisk (*) show that they are default or factory settings.

Volume

The sound volume for the navigation can be set. You can set the volume of the route guidance and the beep sound separately.
To display the Volume setting screen, touch "**Volume**" in the Settings menu.

- ❒ When you move to the Volume setting screen by touching "**Volume**" in the Settings menu, touching "**Back**" returns you to the Settings menu screen.

Guidance Volume
Touch "**+**" or "**–**" to change the Guidance volume.

Beep Volume
Touch "**+**" or "**–**" to change the Beep volume.

Voice Guidance
This setting controls whether the volume of the Audio source is automatically muted during voice guidance.
On*:
During voice guidance, the volume of the Audio source is muted automatically.
Off:
Volume of the Audio source stays the same during voice guidance.

❒ When **Voice Guidance** is "**On**", be sure to set the **Mute Input/Guide** setting in the AV MENU to "**Mute**" or "**ATT**".

➲ Switching the muting/attenuation ➞ Page 129

System Options

Touch "**System Options**" in the Settings menu to display.

Language Selection

➲ The language displayed can be set ➞ Page 136

Once you change the language, installation of the program starts.

⚠ CAUTION

- **Once the installation of the program starts, do not stop the engine of your vehicle and do not switch off the navigation system until the installation is completed and the map of your surroundings appears.**

KM/Mile Setting

This setting controls the unit of distance displayed on your navigation system.
Mile *:
Show distances in miles.
Mile & Yard:
Show distances in miles and yards.
km:
Show distances in kilometers.

Average Speed

When calculating estimated time of arrival and the number of hours to the destination, set the average speed for the freeway or ordinary road using "**+**" and "**–**".

Minor Ordinary Road
- When the "**KM/Mile Setting**" is set to "**Mile**" or "**Mile & Yard**", it can be set in 5 mile increments from 10 miles to 100 miles (35 miles*).
- When the "**KM/Mile Setting**" is set to "**km**", it can be set in 5 km increments from 20 km to 110 km (55 km*).

Major Ordinary Road
- When the "**KM/Mile Setting**" is set to "**Mile**" or "**Mile & Yard**", it can be set in 5 mile increments from 10 miles to 120 miles (45 miles*).
- When the "**KM/Mile Setting**" is set to "**km**", it can be set in 5 km increments from 20 km to 150 km (70 km*).

Freeway
- When the "**KM/Mile Setting**" is set to "**Mile**" or "**Mile & Yard**", it can be set in 5 mile increments from 30 miles to (120 miles (60 miles*).
- When the "**KM/Mile Setting**" is set to "**km**", it can be set in 5 km increments from 60 km to 150 km (95 km*).

Background Picture Setting

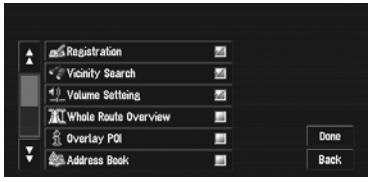
➲ "Changing Background Picture" ➞ Page 68

Read from Disc

➲ "Loading registered locations data from a Disc" ➞ Page 58

Short-Cut Selection

Select shortcuts to display on the map screen. In the list displayed onscreen, the items with red checks are displayed on the map screen.
Touch the shortcut you wish to display and then touch "**Done**" when a red check appears. You can select up to three shortcuts.



: Registration*
Register information about the location indicated by the scroll cursor to the Address Book.

: Vicinity Search*
Find POIs (Points Of Interest) in the vicinity of the scroll cursor.

➲ "Searching the facilities around the scroll cursor" ➞ Page 44

: Volume Setting*
Set the sound volume for the navigation.

➲ "Volume" ➞ Page 73

: Whole Route Overview
Displays the entire currently set route.

➲ Checking the whole route overview ➞ Page 47

: Overlay POI
Displays marks for surrounding facilities (POI) on the map.

➲ "Displaying Certain POI on the Map" ➞ Page 50

: Address Book
Displays the Address Book.

➲ Editing the Address Book ➞ Page 56

: Route Options
Displays the **Route Options** menu.

➲ Displaying **Route Options** menu ➞ Page 52

: Edit Current Route
Displays the screen for adding or deleting way points.

➲ Adding or deleting way points ➞ Page 48

: Traffic On Route
Displaying a list of traffic information on the route.

➲ Displaying traffic information on the route ➞ Page 60

: Stock Info
Displays share prices.

➲ Displaying share prices ➞ Page 63

: Set My Favorites
Displays the screen of storing browsable item for XM tuner.

➲ "Storing browsable information" ➞ Page 64

: My Favorites
Displays information on your favorite item.

➲ "Displaying favorite browsable Information" ➞ Page 64

Map Display Options

Touch "**Map Display Options**" in the Settings menu to display.

Tracking Display

The tracking display setting has the following options.

Always:
Display tracking for all journeys.

This Trip:
Display tracking dots but erase them when the navigation system is turned off (when turning off the engine of your vehicle).

Off*:
Do not display tracking dots.

AV Guide Mode

Set whether to automatically switch to the navigation screen from the AV operation screen when your vehicle approaches a guidance point such as an intersection while displaying a screen other than navigation.

On*:
Switches from AV operation screen to navigation screen.

Off:
Does not switch the screen.

Day/Night Display

To improve the visibility of the map during the evening, you can change the combination of the colors of the map.

Nighttime*:
You can change the combination of the colors of a map according to whether the vehicle lights are On or Off.

Daytime:
The map is always displayed with bright colors.

Close-up of Junction

This setting enables switching to an enlarged map around the point where your vehicle is approaching an intersection, entrance/exit of freeway or a junction.

On*:
Switches to an enlarged map.

Off:
Does not switch to an enlarged map.

Arrow in AV

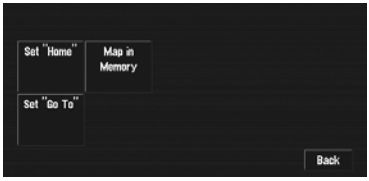
Set whether to display the guidance information with arrows on the AV Operation screen.

On*:
Displays guidance information with arrows on the AV Operation screen.

Off:
Does not display guidance information with arrows on the AV Operation screen.

Defined Locations

Touch "**Defined Locations**" in the Settings menu to display.



Set "Home"

➲ Registering and changing your home location ➞ Page 55

Map in Memory

The memory area is the area in the map, which is being read in advance for the memory navi mode. There are two ways of setting the memory area.

Around Current Position

A square that has sides of approximately 10.6 miles (17 km) with the selected location at the center is read into the memory.
Indicate the map you want to store in the memory by touching ◀, ▶, ▲ or ▼. Then, adjust the map scale to the one you desire, and touch "**OK**". Continuously touching ◀, ▶, ▲ or ▼ allows you to rapidly scroll the map screen.

❒ An area not stored in the DVD Map Disc cannot be memorized.

Around Current Route

Sets the surrounding currently set route to the memory area. The route to the destination will appear on screen. You can memorize the area by touching "**OK**".

❒ The extent of the information that can be set in the memory area is about 6.6 miles (10.6 km) surrounding the route.

Set "Go To"

➲ Registering and changing your favorite location ➞ Page 55

Demo Mode

This is a demonstration function for shops. After a route is set, a simulation of route guidance to a destination is automatically displayed. Normally, set this to "**Off**".

Repeat:
Repeat demo drive.

Off*:
Demo Mode is set off.

❒ If you eject the DVD Map Disc during the demo drive, the demo mode will be stopped.

Time

Adjusts the systems clock. The time difference (+, –) between the time originally set in your navigation system is set here.
You can also select summer time On/Off.

➲ Time settings ➞ Page 137

Summer Time

Choose whether or not to take summer time into account.

On:
Summer time is taken into account.

Off*:
Summer time is not taken into account.

❒ When the period of summer time comes, or when the summer time ends, your navigation system does not automatically change the summer time setting.

➲ Change the summer time setting ➞ Page 137

Modify Current Location

Touch the screen to adjust the current position and direction of the vehicle displayed on the map.

Hardware Info

Touch "**Hardware Info**" in the Settings menu to display.

Connection Status

➲ "Checking the connections of leads and installation positions" ➞ Page 70

3D Calibration

➲ "Checking the Navigation Status" ➞ Page 70

Service Info Screen

Displays the disc production number and version information.

Restore Factory Settings

Reset various settings registered to the navigation system and restores to the default or factory settings. To restore, touch "**Yes**".

❒ About the item return to the default, please check "**Display Information**" at the end of this manual.

Using the AV Source (Built-in DVD Drive and Radio)

This chapter describes how to display the AV MENU for AV operations and perform operations with the DVD drive and radio.

How to Display each Menu

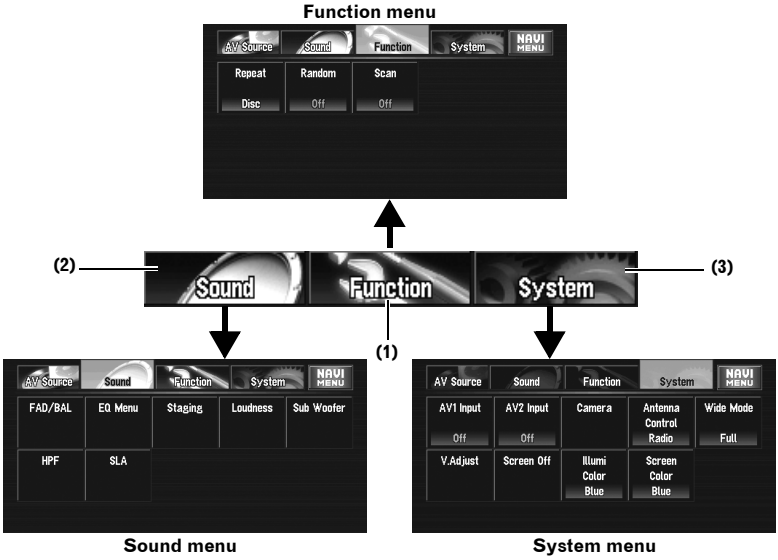
1 Press the VOLUME knob (or AV button) to switch to the AV operation screen.

2 Press the MENU button to change to the AV MENU.

3 Touch "Sound", "Function" or "System" to enter the menu you want to operate.

Each menu is displayed. The items that cannot be operated according to the sources or conditions are indicated in gray.

❒ If you touch "**AV Source**", the screen changes to the AV Source screen.



❒ When the source is "**OFF**", the "**Function**" key changes to "**Initial**" key.

(1) Function key

Touch to enter the **Function** menu for each source.

➲ Using the **Function** menu ➞ "Operation using the **Function** menu" and "Advanced <each source> operation"

(2) Sound key

Touch to select various sound quality controls.

➲ Using the **Sound** menu ➞ Page 123

(3) System key

Touch to select various setup functions.

➲ Using the **System** menu ➞ Page 130

4 Press the MENU button to return to the display of each source.

Operating the Built-in DVD drive

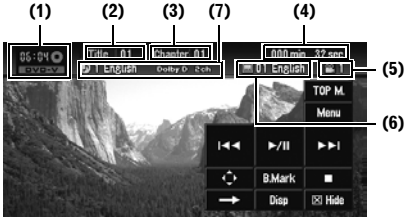
This section explains the operation of DVD-Video, CD, MP3/WMA/AAC or DivX.

❒ The built-in DVD drive of this unit can recognize the several types of media as following sources.

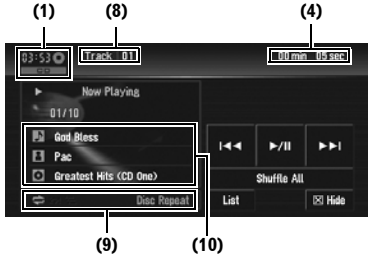
— DVD-Video: "**DVD-V**"
— Audio data (CD-DA): "**CD**"
— Compressed audio (MP3/WMA/AAC) files: "**ROM**"
— DivX video files: "**DivX**"

❒ Also see at "Handling and Care of the Disc" for more cautions about handling each media.

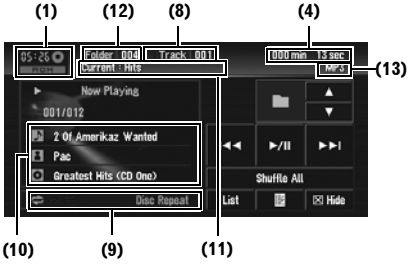
DVD-Video



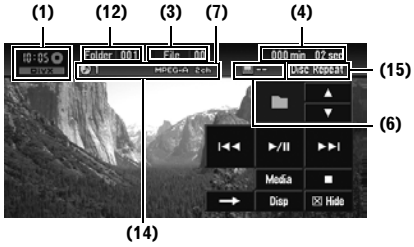
CD



ROM (MP3/WMA/AAC files)



DivX



See the following pages for instructions on operating each type of disc.

➲ "Touch key operation (DVD-V)" ➞ Page 82

➲ "Touch key operation (CD, ROM)" ➞ Page 85

➲ "Touch key operation (DivX)" ➞ Page 87

(1) Source icon

(2) Title number indicator

(3) Chapter or file number indicator

(4) Play time indicator

(5) Viewing angle indicator

(6) Subtitle language indicator

(7) Audio language indicator

(8) Track number indicator

(9) Repeat/Random/Scan indicator
The marks shown below indicate the current playback status.
and repeat range: Displays the repeat range
: Random
: Scan

(10) Detail information display
Displays the track title, artist and disc title.
: Track title
: Artist
: Disc title (album title)

❒ The "**–**" mark is displayed if there is no corresponding information.

(11) Current folder name indicator

(12) Folder number indicator

(13) File type indicator

(14) Audio indicator

(15) Repeat indicator

Switching the media files type

When playing a disc containing a mixture of various media file types such as DivX and MP3, you can switch between media files types to play.

1 Touch "Media" to switch between media file types.

Touch "**Media**" repeatedly to switch between the following media file types:
CD (audio data (CD-DA)) — ROM (MP3/WMA/AAC files) — DivX (DivX video files)

❒ There is sometimes a delay between starting up playback and the sound being issued. This is particularly the case when playing back multi-session discs and discs with many folders. When being read in, **Reading Format** is displayed.

❒ Playback is carried out in order of file number. Folders are skipped if they contain no files. (If folder 001 (ROOT) contains no files, playback commences with folder 002.)

❒ When playing back files recorded as VBR (variable bit rate) files, the play time will not be correctly displayed if fast forward or rewind operations are used.

❒ If more than 255 tracks are stored in the folder, some time may be required to display the track list.

Touch key operation (DVD-V)

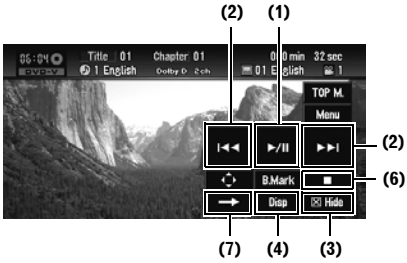
1 Touch "DISC" in the AV Source screen to select the built-in DVD drive.

If no disc is loaded in navigation system, you cannot select "**DISC**" (built-in DVD drive).

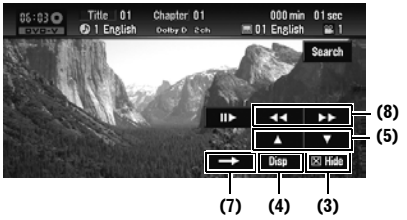
➲ "Selecting an AV source" ➞ Page 32

2 Touch the screen to display the touch panel keys.

Touch keys (Page 1)



Touch keys (Page 2)



Touch keys (Page 3)

❒ With some discs, the icon ⃠ may be displayed, meaning that the operation is not valid.

(1) Playback and Pause

Pause lets you temporarily stop disc playback. Touching ▶/❚❚ switches between "playback" and "pause".

❒ The icon ❚❚ is displayed and playback is paused letting you view a still image.

(2) Skip the chapter forward or backward

Touching ▶▶| skips to the start of the next chapter. Touching |◀◀ once skips to the start of the current chapter. Touching again will skip to the previous chapter.

❒ You can also select a chapter by pressing the |◀◀ or ▶▶| button on the hardware.

(3) Hide the touch keys
Touching "**Hide**" clears the touch keys. Touch anywhere on the LCD screen, display the touch keys again.

(4) Switch the display
Touching "**Disp**" changes the information as follows:
Disc information display — Repeat range display

(5) Skip the title forward or backward
Touching ▲ skips to the start of the next title. Touching ▼ skips to the start of the previous title.

(6) Stop playback
When you stop playback by touching ■, that location on the disc is memorized enabling playback from that point when you play the disc again.

❒ To play the disc again, touch ►/II.

(7) Switch to other pages of touch keys

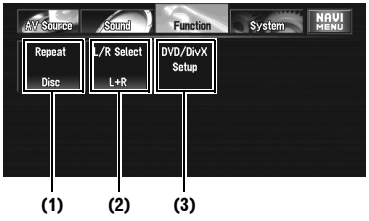
(8) Fast rewind or forward
Touching ◄◄ or ►► to perform fast rewind or forward.
If you keep touching ◄◄ or ►► for five seconds, the icon ◄◄ or ►► changes into ▷▷ or ◁◁. When this happens, fast rewind/ fast forward continues even if you release ◄◄ or ►►. To resume playback at a desired point, touch ►/II, ◄◄ or ►► opposite to key pushed for five seconds .

❒ You can also perform fast rewind/fast forward by holding the ⏮ or ⏭ button on the hardware.

Operation using the Function menu (DVD-V)

➲ How to display the **Function** menu ➞ Page 79 to 80

Function menu



(1) Repeating play
Each touch of "**Repeat**" changes the settings as follows:
- **Title** — Repeat just the current title
- **Chapter** — Repeat just the current chapter
- **Disc** — Play throughout the current disc

❒ If you perform chapter (title) search, fast forward/rewind or slow motion playback, the repeat play range changes to "**Disc**".

(2) Selecting audio output
When playing DVD-Video discs recorded with LPCM audio, you can switch the audio output. Touch "**L/R Select**" repeatedly until the desired audio output appears in the display.
- **L+R** — Left and right
- **L** — Left
- **R** — Right
- **Mix**— Mixing left and right

❒ This function is not possible when disc playback has been stopped.

(3) Setting Up the DVD/DivX Player

➲ "Setting Up the DVD/DivX Player" ➞ Page 126

Other functions (DVD-V)

Operating the DVD menu
Some DVDs allow you to select from the disc contents using a menu.

❒ This function is available for DVD-Video.

❒ You can display the menu by touching **Menu** or **TOP M.** while a disc is playing. Touching either of these keys again lets you start playback from the location selected from the menu. For details, refer to the instructions provided with the disc.

Using DVD menu direct touch control
This function allows you to operate the DVD menu by touching the menu item on the screen directly.

❒ This function can be used when the key is displayed on the lower right corner of the LCD screen.

❒ Depending on the contents of DVD discs, this function may not work properly. In this case, use touch panel keys to operate the DVD menu.

❒ Touch key to display touch panel keys to operate DVD menu. And then touch "**ESC**", key is not displayed.

➲ "Using DVD menu by touch panel keys" → Page 84

Using DVD menu by touch panel keys

If key is not displayed, DVD menu is operated by touch panel keys.

1 Touch to display touch panel keys.

2 Touch .

Touch panel keys to operate DVD menu appear.

3 Touch ▲, ▼, ◀ or ▶ to select the desired menu item, and touch ENTER.

Playback starts from the selected menu item.

❒ Touch "**Touch**" to switch direct touch control.

➲ "Using DVD menu direct touch control" → Page 83

❒ The way to display the menu differs depending on the disc.

Frame-by-frame playback

This lets you move ahead one frame at a time during playback.

1 Touch II▶ during playback.

Each time you touch II▶, you move ahead one frame.

To return to normal playback, touch ▶/II.

❒ With some discs, images may be unclear during frame-by-frame playback.

Slow motion playback

This lets you slow down playback speed.

1 Keep touching II▶ until ▪▪▶ is displayed during playback.

The icon ▪▪▶ is displayed, forward slow motion playback begins.

To return to normal playback, touch ▶/II.

2 Press II▶ to adjust playback speed during slow motion playback.

Each time you press II▶ it changes the speed in four steps in the following order:

1/16 — 1/8 — 1/4 — 1/2

❒ There is no sound during slow motion playback.

❒ With some discs, images may be unclear during slow motion playback.

❒ Reverse slow motion playback is not possible.

Searching for a playback location

When playing back a DVD-Video, you can search for a specific title, chapter or time to begin playback.

❒ Chapter search and time search are not possible when disc playback has been stopped.

1 Touch "Search" and then touch desired item.

When playing a DVD, touch "**Title**" (title), "**Chapter**" (chapter) or "**Time**" (time).

2 Touch 0 — 9 to input the desired number.

For titles and chapters

- To select 3, touch 3.
- To select 10, touch 1 and 0 in order.
- To select 23, touch 2 and 3 in order.

For time (time search)

- To select 21 minutes 43 seconds, touch 2, 1, 4 and 3 in order.
- To select 1 hour 11 minutes, convert the time into 71 minutes 00 seconds and touch 7, 1, 0 and 0 in order.

❒ To cancel the input numbers, touch "**Clear**".

3 While the input number is displayed, touch "Enter".

This starts playback from the selected scene.

Changing audio system and audio language during playback (Multi-audio)

With DVDs featuring multi-audio recordings, you can switch between languages/audio systems during playback.

1 Touch "Audio" during playback.

Each time you touch "**Audio**" switches between audio mode.

- ❒ With some DVDs, switching between languages/audio systems may only be possible while using a menu display.
- ❒ Display indications such as Dolby D and M ch indicate the audio system recorded on the DVD. Depending on the setting, playback may not be with the same audio system as the one indicated.
- ❒ Touching "**Audio**" during fast forward/fast rewind, pause or slow motion playback returns you to normal playback.

Changing the subtitle language during playback (Multi-subtitle)

With DVDs featuring multi-subtitle recordings, you can switch between subtitle languages during playback.

1 Touch "S.Title" during playback.

Each time you touch "**S.Title**" switches between subtitle language.

- ❒ With some DVDs, switching between subtitle languages may only be possible using a menu display.
- ❒ Touching "**S.Title**" during fast forward/fast rewind, pause or slow motion playback returns you to normal playback.

Changing the viewing angle during playback (Multi-angle)

With DVDs featuring multi-angle (scenes shot from multiple angles) recordings, you can switch among viewing angles during playback.

- ❒ During playback of a scene shot from multiple angles, the angle icon is displayed. Turn angle icon display on or off using **DVD/DivX Setup** menu.

➲ Setting angle icon ➞ Page 127

1 Touch "Angle" during playback of a scene shot from multiple angles.

Each time you touch "**Angle**" switches between angle.

- ❒ Touching "**Angle**" during fast forward/fast rewind, pause or slow motion playback returns you to normal playback.

Resume playback (Bookmark)

When playing DVD-Video discs, you can use this function.

The Bookmark function lets you resume playback from a selected scene the next time the disc is loaded.

Touching "B.Mark";

You can bookmark a point for every five disc.

If you try to memorize a point for the same disc, the oldest bookmark will be replaced by the new one.

- ❒ To clear the bookmark on a disc, keep touching "**B.Mark**" during playback.

Pressing and holding the EJECT button;

You can also bookmark a point for one disc by pressing and holding the **EJECT** button.

Next time you load the same disc, playback will resume from the bookmarked point.

If you newly bookmark a point for with this method, previous bookmarked point will be overwritten.

- ❒ In playback, the point bookmarked with this method is given priority over the point bookmarked with using "**B.Mark**".

Touch key operation (CD, ROM)

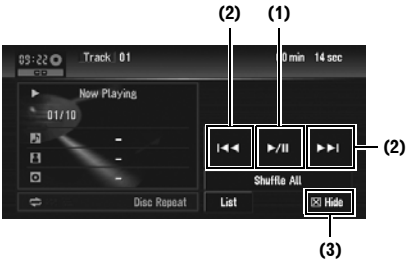
1 Touch "DISC" in the AV Source screen to select the built-in DVD drive.

If no disc is loaded in navigation system, you cannot select "**DISC**" (built-in DVD drive).

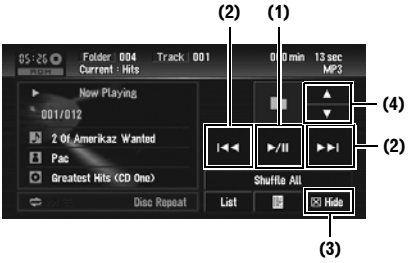
➲ "Selecting an AV source" ➞ Page 32

2 Touch the screen to display the touch panel keys.

Touch keys (CD)



Touch keys (ROM)



(1) Playback and Pause

Pause lets you temporarily stop disc playback. Touching ▶/II switches between "playback" and "pause".

PAUSE is displayed and playback is paused.

(2) Skip the track forward or backward

Touching ▶▶I skips to the start of the next track. Touching I◀◀ once skips to the start of the current track or file. Touching again will skip to the previous track or file.

❒ You can also select a track or file by pressing the I◀◀ or ▶▶I button on the hardware.

Fast rewind or forward

Keep touching I◀◀ or ▶▶I to perform fast rewind or forward.

❒ You can also perform fast rewind/fast forward by holding the I◀◀ or ▶▶I button on the hardware.

(3) Hide the touch keys

Touching "**Hide**" clears the touch keys. Touch anywhere on the LCD screen, display the touch keys again.

(4) Move the folder up or down

When a ROM is played, touch ▲ or ▼ to select the desired folder.

You cannot select a folder that does not have a MP3/WMA/AAC file recorded in it.

Displaying text information

1 Touch [ ].

The next piece of information is displayed.

- **Album Title** (album title)
- **Track Title** (track title)
- **Folder Title** (folder title)
- **File Name** (file name)
- **Artist Name** (artist name)
- **Genre** (genre)
- **Year** (year)

If specific information has not been recorded on MP3/WMA/AAC files on disc, nothing may be displayed.

Select the track from the list

The list lets you see the list of track titles, file names or folder names on a disc and select one of them to play back.

1 Touch "List".

To return to the previous screen, touch "**Detail**".

❒ Touching ▲ or ▼ switches to the next or previous page in the list.

❒ The "–" mark is displayed if there is no corresponding information.

Moving to upper folders

When using a MP3/WMA/AAC disc in which the data is divided into folders, you can move a track or file to upper folders. This is used to play back tracks or files recorded in other folders.

1 Touch [↑Up].

❒ [↑Up] is only displayed when the list is displayed.

❒ If the current folder is the ROOT folder, [↑Up] is displayed in gray.

❒ If the upper folder has no MP3/WMA/AAC files, the track or file currently playing will not change.

Randomly play tracks with one touch

All of the songs in a disc can be played at random by only touching one key.

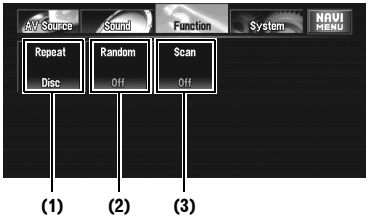
1 Touch "Shuffle All".

To cancel the random play, switch "**Random**" to "**Off**" in the **Function** menu.

Operation using the Function menu (CD, ROM)

➲ How to display the **Function** menu → Page 79 to 80

Function menu (e.g., CD)



(1) Repeating play

Each touch of "**Repeat**" changes the settings as follows:

CD:

- **Disc** — Repeat the current disc
- **Track** — Repeat just the current track

❒ If you perform track search or fast forward/rewind, repeat play is automatically canceled.

❒ When playing discs with MP3/WMA/AAC files and audio data (CD-DA), repeat play is performed within the each data session even if "**Disc**" is selected.

ROM:

- **Folder** — Repeat the current folder
- **Disc** — Repeat all tracks
- **Track** — Repeat just the current track

❒ If you select another folder during repeat play, the repeat play range changes to "**Disc**".

❒ If you perform fast forward/rewind during "**Track**", the repeat play range changes to "**Folder**".

❒ When "**Folder**" is selected, it is not possible to play back a subfolder of that folder.

❒ When playing discs with MP3/WMA/AAC files and audio data (CD-DA), repeat play is performed within the currently playing data session even if "**Disc**" is selected.

(2) Play tracks in a random order

Touching "**Random**" switches between "**On**" and "**Off**". When using ROM, the tracks in the current repeat play range are randomly played.

❒ If you turn "**Random**" to "**On**" during the repeat play range is "**Track**", the repeat play range changes to "**Folder**" automatically.

(3) CD: Scan tracks of a CD

Touching "**Scan**" switches between "**On**" and "**Off**". Scan play lets you hear the first 10 seconds of each track on the CD. When you find the desired track, touch "**Scan**" to turn scan play off.

❒ After scanning of a CD is finished, normal playback of the tracks will begin again.

ROM: Scan folders and tracks

Touching "**Scan**" switches between "**On**" and "**Off**". Scan play is performed in the current repeat play range. When you find the desired track, touch "**Scan**" to turn scan play off.

❒ After track or folder scanning is finished, normal playback of the tracks will begin again.

❒ If you turn "**Scan**" to "**On**" during the repeat play range is "**Track**", the repeat play range changes to "**Folder**" automatically.

❒ If you turn "**Scan**" to "**On**" during the repeat play range is "**Disc**", the scan play is performed only first tracks of each folders.

Touch key operation (DivX)

1 Touch "DISC" in the AV Source screen to select the built-in DVD drive.

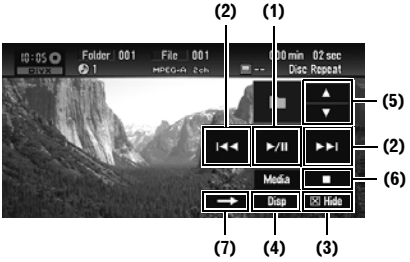
If no disc is loaded in navigation system, you cannot select "**DISC**" (built-in DVD drive).

➲ "Selecting an AV source" → Page 32

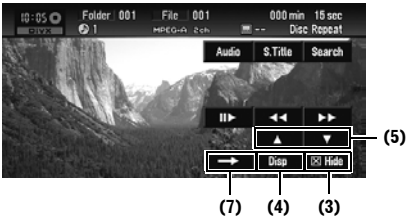
2 Touch the screen to display the touch panel keys.

Touch keys (Page 1)

❒ The following screen appears when the vehicle is stopped. When the vehicle is moving, the shape of the touch keys changes.



Touch keys (Page 2)



❒ With some discs, the icon ⃠ may be displayed, meaning that the operation is not valid.

(1) Playback and Pause
Pause lets you temporarily stop disc playback. Touching ▶/❚❚ switches between "playback" and "pause".

❒ The icon ❚❚ is displayed and playback is paused letting you view a still image.

(2) Skip the file forward or backward
Touching ▶▶| skips to the start of the next file. Touching |◀◀ once skips to the start of the current file. Touching again will skip to the previous file.

❒ You can also select a file by pressing the |◀◀ or ▶▶| button.

(3) Hide the touch keys
Touching "**Hide**" clears the touch keys. Touch anywhere on the LCD screen, display the touch keys again.

(4) Switch the display
Touching "**Disp**" changes the information as follows:
Audio, SubTitle, Repeat display — Folder name display — File name display

(5) Move the folder up or down
Touch ▲ or ▼ to select the desired folder. You cannot select a folder that does not have a DivX file recorded in it.

(6) Stop playback
When you stop playback by touching ■, that location on the disc is memorized enabling playback from that point when you play the disc again.

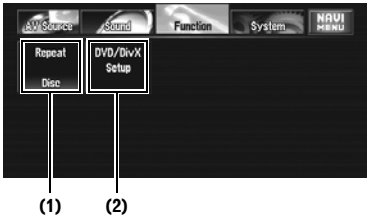
❒ To play the disc again, touch ▶/❚❚.

(7) Switch to other pages of touch keys

Operation using the Function menu (DivX)

➲ How to display the **Function** menu ➞ Page 79 to 80

Function menu



(1) Repeating play
Each touch of "**Repeat**" changes the settings as follows:

- **Folder** — Repeat the current folder
- **Disc** — Repeat all files
- **File** — Repeat just the current file

❒ If you select another folder during repeat play, the repeat play range changes to "**Disc**".

❒ If you perform file search or fast forward/rewind during "**File**", the repeat play range changes to "**Folder**".

❒ When "**Folder**" is selected, it is not possible to play back a subfolder of that folder.

(2) Setting Up the DVD/DivX Player

➲ "Setting Up the DVD/DivX Player" ➞ Page 126

Other functions (DivX)

Fast rewind or forward

Touching ◀◀ or ▶▶ to perform fast rewind or forward.

If you keep touching ◀◀ or ▶▶ for five seconds, the icon ◀◀ or ▶▶ changes into ◁◁ or ▷▷. When this happens, fast rewind/ fast forward continues even if you release ◀◀ or ▶▶. To resume playback at a desired point, touch ▶/II, ◀◀ or ▶▶ opposite to key pushed for five seconds.

❒ You can also perform fast rewind/fast forward by holding the ⏮ or ⏭ button on the hardware.

Frame-by-frame playback

This lets you move ahead one frame at a time during playback.

1 Touch II▶ during playback.

Each time you touch II▶, you move ahead one frame.

To return to normal playback, touch ▶/II.

❒ With some discs, images may be unclear during frame-by-frame playback.

Slow motion playback

This lets you slow down playback speed.

1 Keep touching II▶ until ▪▪▶ is displayed during playback.

The icon ▪▪▶ is displayed, forward slow motion playback begins.

To return to normal playback, touch ▶/II.

❒ There is no sound during slow motion playback.

❒ With some discs, images may be unclear during slow motion playback.

❒ Reverse slow motion playback is not possible.

Searching for a playback location

When playing back DivX, you can search for a specific folder, file or time to begin playback.

❒ Time search and file search are not possible when disc playback has been stopped.

1 Touch "Search" and then touch desired item.

When playing DivX, touch "**Folder**" (folder), "**File**" (file) or "**Time**" (time).

2 Touch 0 — 9 to input the desired number.

For titles and chapters

- To select 3, touch 3.
- To select 10, touch 1 and 0 in order.
- To select 23, touch 2 and 3 in order.

For time (time search)

- To select 21 minutes 43 seconds, touch 2, 1, 4 and 3 in order.
- To select 1 hour 11 minutes, convert the time into 71 minutes 00 seconds and touch 7, 1, 0 and 0 in order.

❒ To cancel the input numbers, touch "**Clear**".

3 While the input number is displayed, touch "Enter".

This starts playback from the selected scene.

Changing audio system during playback (Multi-audio)

With DivX featuring multi-audio recordings, you can switch between audio systems during playback.

1 Touch "Audio" during playback.

Each time you touch "**Audio**" switches between audio mode.

❒ Display indications such as Dolby D and M ch indicate the audio system recorded on the DivX file. Depending on the setting, playback may not be with the same audio system as the one indicated.

❒ Touching "**Audio**" during fast forward/fast rewind, pause or slow motion playback returns you to normal playback.

Changing the subtitle during playback (Multi-subtitle)

With DivX featuring multi-subtitle recordings, you can switch between subtitles during playback.

1 Touch "S.Title" during playback.

Each time you touch "**S.Title**" switches between subtitle.

❒ Touching "**S.Title**" during fast forward/ fast rewind, pause or slow motion playback returns you to normal playback.

❒ When using DivX, you can switch between showing or hiding the subtitles while a subtitle file is displayed. This switches the subtitles while displaying subtitles in a DivX file.

Playing DivX® VOD content

Some DivX VOD (video on demand) content may only be playable a fixed number of times.
When you load a disc containing this type of DivX VOD content, the remaining number of plays is shown on-screen and you then have the option of playing the disc (thereby using up one of the remaining plays), or stopping. If you load a disc that contains expired DivX VOD content (for example, content that has zero remaining plays), **Rental expired** is displayed.

❒ If your DivX VOD content allows an unlimited number of plays, then you may load the disc into your player and play the content as often as you like, and no message will be displayed.

❒ In order to play DivX VOD content on this unit, you first need to register the unit with your DivX VOD content provider. For information about your registration code, refer to Displaying your DivX® VOD registration code on page 128.

❒ DivX VOD content is protected by a DRM (Digital Rights Management) system. This restricts playback of content to specific, registered devices.

1 If the message is displayed after loading a disc containing DivX VOD content, touch "Play".

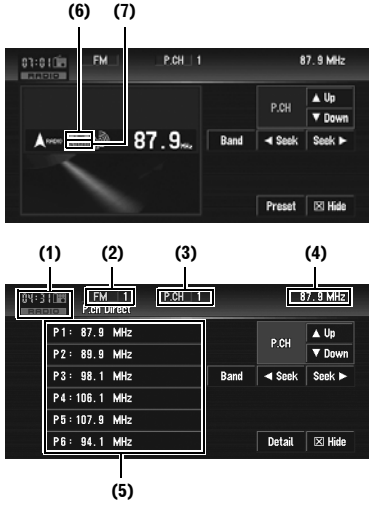
Playback of the DivX VOD content will start.

❒ Touch "**Next**" or "**Previous**" to switch between files.

❒ If you do not want to play the DivX VOD content, touch "**Stop**".

Radio

Listening to the radio



These are the basic steps necessary to operate the radio.

➲ More advanced radio operation ➞ Page 91

(1) Source icon

(2) Band indicator

(3) Preset number indicator

(4) Frequency indicator

(5) Preset list or Detail information display

(6) LOCAL indicator

(7) STEREO indicator

1 Touch "RADIO" in the AV Source screen to select the radio.

➲ "Selecting an AV source" ➞ Page 32

2 Touch "Band" to select a band.

Touch "**Band**" repeatedly until the desired band is displayed, FM1, FM2, FM3 for FM or AM.

3 To perform manual tuning, touch ◄ Seek or Seek ► briefly.

The frequencies move up or down step by step.

4 To perform seek tuning, keep touching ◄ Seek or Seek ► for about one second and release.

The tuner will scan the frequencies until a broadcast strong enough for good reception is found.

You can cancel seek tuning by touching either ◄ Seek or Seek ► briefly.

If you keep touching ◄ Seek or Seek ► you can skip broadcasting stations. Seek tuning starts as soon as you release the keys.

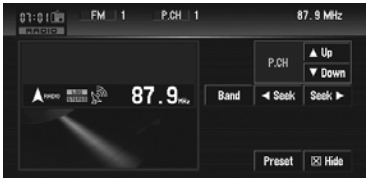
Switching between the detail information display and the preset list display

You can switch the left side of the basic screen according to your preference.

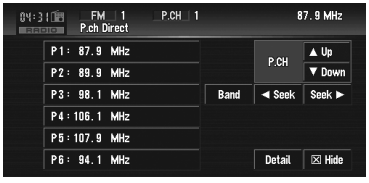
1 Touch "Preset" (or "Detail").

Each touch of "**Preset**" (or "**Detail**") changes the detail information display or preset list display.

Detail information display

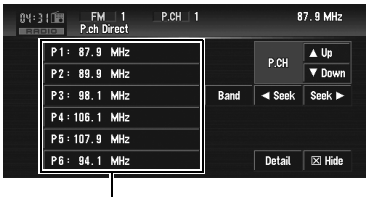


Preset list display



Storing and recalling broadcast frequencies

If you touch any of the preset tuning keys **P1** (PRESET 1) — **P6** (PRESET 6) you can easily store up to six broadcast frequencies for later recall with the touch of a key.



Preset tuning keys (P1 — P6)

1 When you find a frequency that you want to store in memory, keep touching a preset tuning key P1 — P6 until the preset number (e.g., P.CH 1) stops flashing.

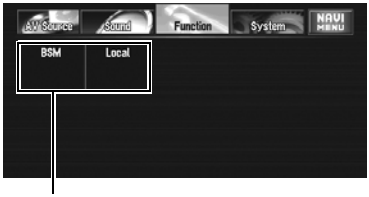
The selected radio station frequency has been stored in memory.

❒ Up to 18 FM stations, 6 for each of the three FM bands, and 6 AM stations can be stored in memory.

2 The next time you touch the same preset tuning key P1 — P6, the radio station frequency is recalled from memory.

❒ You can also use ▲ and ▼ to recall radio stations frequencies assigned to preset tuning keys **P1** — **P6**.

Advanced radio operation



(1) Function display

➲ How to display the **Function** menu → Page 79 to 80

Storing the strongest broadcast frequencies

BSM (best stations memory) lets you automatically store the six strongest broadcast frequencies under preset tuning keys **P1** — **P6** and once stored there you can tune in to those frequencies with the touch of a key.

1 Touch "BSM" in the Function menu.

2 Touch "Start" to turn BSM on.
BSM begins to flash. While **BSM** is flashing the six strongest broadcast frequencies will be stored under preset tuning keys **P1** — **P6** in order of their signal strength. When finished, **BSM** stops flashing.
To cancel the storage process, touch "**Stop**".

❒ Storing broadcast frequencies with **BSM** may replace broadcast frequencies you have saved using **P1** — **P6**.

Tuning in strong signals

Local seek tuning lets you tune in only those radio stations with sufficiently strong signals for good reception.

1 Touch "Local" in the Function menu.

2 Touch "On" to turn local seek tuning on.
To turn local seek tuning off, touch "**Off**".

3 Touch ◄ or ► to set the sensitivity.
There are four levels of sensitivity for FM and two levels for AM:
FM: **1** — **2** — **3** — **4**
AM: **1** — **2**
The FM "**4**" (AM "**2**") setting allows reception of only the strongest stations, while lower settings let you receive progressively weaker stations.

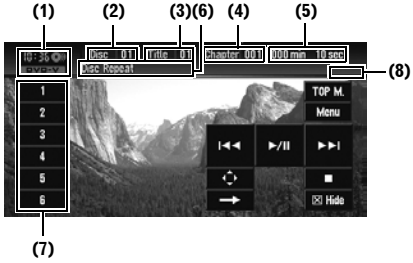
Using the AV Source (Pioneer AV Equipment)

When Pioneer audio equipment is connected to the navigation system using IP-BUS, such equipment can be operated from the navigation system.
When reading this chapter, please also refer to the operation manual of the AV equipment connected to the navigation system.

Multi-DVD Player

Playing a disc

DVD-Video



You can use the navigation system to control a DVD player or multi-DVD player (e.g. XDV-P6), which is sold separately. For details concerning operation, refer to the DVD player's or multi-DVD player's operation manual. This section provides information on DVD operations with the navigation system that differs from operations described in the DVD player's or multi-DVD player's operation manual.

- ❒ This unit does not have ITS playlist and disc title functions.
- ❒ This unit cannot display the text information recorded on a CD TEXT disc playing on the optional DVD player.

(1) Source icon

(2) Disc number indicator
Shows the number of the disc currently playing when using a multi-DVD player.

(3) Title/Folder number indicator

(4) Chapter/Track number indicator

(5) Play time indicator

(6) Repeat indicator

(7) Disc number list

(8) File type indicator
When playing a ROM, the file type indicator is displayed.

1 "AV1 Input" is set to M-DVD.
➲ "Setting the video input" ➞ Page 131

2 Touch "M-DVD" in the AV Source screen to select the multi-DVD player.
➲ "Selecting an AV source" ➞ Page 32

3 Touch the screen to display the touch panel keys.

4 Touch any of the keys "1 — 6" to select the disc you want to play.

Operations and Functions

Touch key operations and functions are basically the same as those for the built-in DVD player. For detail, refer to following contents.

Operating a DVD-V

➲ "Touch key operation (DVD-V)" ➞ Page 82

➲ "Operation using the Function menu (DVD-V)" ➞ Page 83

➲ "Other functions (DVD-V)" ➞ Page 83

- ❒ Direct touch control is not available.
- ❒ When you reproduce reverse slow motion, use DVD player's or multi-DVD player's remote control.
- ❒ "**B.Mark**", "**Disp**", "**Search**" is not displayed.

Operating a CD/ROM

➲ "Touch key operation (CD, ROM)" ➞ Page 85

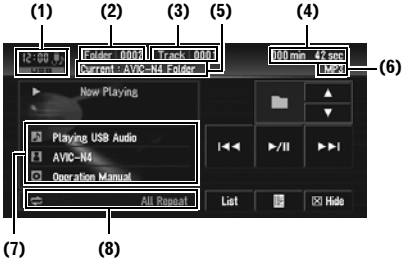
➲ "Operation using the Function menu (CD, ROM)" ➞ Page 87

❒ AAC files cannot be played in XDV-P6.

❒ "**Shuffle All**","**List** or **Detail**", ▲ Up , are not displayed.

USB

Operating the USB portable audio player/USB memory



You can control a USB portable audio player/USB memory by combining the USB adapter (e.g. CD-UB100) (sold separately) to the navigation system. For details concerning operation, refer to the USB adapter's operation manual.

❒ Optimum performance of this unit may not be obtained depending on the connected USB portable audio player/USB memory.

❒ You can listen to songs by connecting a USB portable audio player/USB memory that is USB Mass Storage Class compliant. For details about the supported USB memory, refer to USB adapter's operation manual.

(1) Source icon

(2) Folder number indicator

(3) Track number indicator

(4) Play time indicator

(5) Current folder name indicator

(6) File type indicator

(7) Detail information display
Displays the track title, artist and album title.

: Track title
: Artist
: Album title

❒ The "–" mark is displayed if there is no corresponding information.

(8) Repeat/Random/Scan indicator
The marks shown below indicate the current playback status.
and repeat range: Displays the repeat range
: Random
: Scan

1 Touch "USB" in the AV Source screen to select the USB.

➲ "Selecting an AV source" ➞ Page 32

2 Touch ▲ or ▼ to select a folder

❒ Playback is carried out in order of file number. Folders are skipped if they contain no files. (If folder 001 (ROOT) contains no files, playback commences with folder 002.)

3 To skip back or forward to another compressed audio file, briefly touch ⏮ or ⏭.

4 To perform fast forward or rewind, keep touching ⏮ or ⏭.

Displaying text information

The operation is the same as that of the built-in DVD drive.

➲ "Displaying text information" ➞ Page 86

❒ **Genre** and **Year** are not displayed.

❒ If the characters recorded on the audio file are not compatible with this navigation system, those characters will not be displayed.

Switching between the detail information display and the list display

You can switch the left side of the basic screen according to your preference.

1 Touch "List" (or "Detail").
Each touch of "**List**" (or "**Detail**") changes the list display or detail information display.

Detail information display

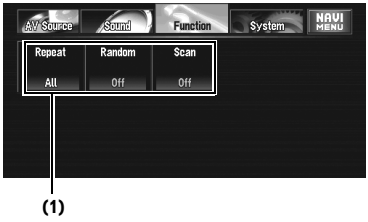
List display

Viewing contents of upper folder

Touching ⬆Up to display contents of the upper folder.

❒ If the current folder is the ROOT folder, ⬆Up is not displayed.

Advanced USB operation



(1) Function display

➲ How to display the **Function** menu → Page 79 to 80

Repeating play

There are three repeat play ranges for the USB portable audio player/USB memory: **All** (repeat all files), **Track** (repeat one track) and **Folder** (repeat folder).

1 Touch "Repeat" in the Function menu.
Each touch of "**Repeat**" changes the settings as follows:

- **All** — Repeat all files in the USB portable audio player/USB memory.
- **Track** — Repeat just the current track
- **Folder** — Repeat the current folder

❒ If you select another folder during repeat play, the repeat play range changes to **All**.

❒ If you perform track search or fast forward/rewind during **Track**, the repeat play range changes to **Folder**.

Playing tracks in a random order

Random play lets you play back tracks in a random order within the repeat range **All** or **Folder**.

1 Select the repeat range.
➲ "Repeating play" → Page 95

2 Touch "Random" in the Function menu.
Touching "**Random**" switches between "**On**" and "**Off**".
Tracks will play in a random order within the previously selected **All** or **Folder** ranges.

Scanning folders and tracks

When the repeat play range is set to **Folder**, the beginning of each track on the selected folder plays for about 10 seconds. When the repeat play range is set to **All**, the beginning of all tracks in USB portable audio player/USB memory are played for about 10 seconds.

1 Select the repeat range.
➲ "Repeating play" → Page 95

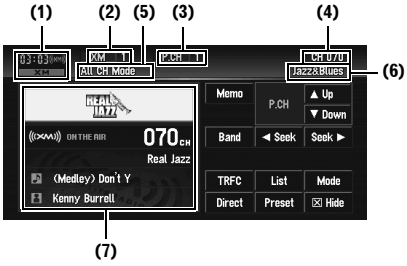
2 Touch "Scan" in the Function menu.
Touching "**Scan**" switches between "**On**" and "**Off**".
The first 10 seconds of each track of the current folder (or the first track of each folder) is played.

3 When you find the desired track (or folder) touch "Scan" to turn scan play off.

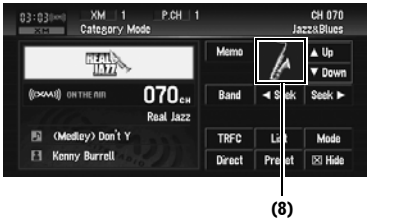
❒ After track or folder scanning is finished, normal playback of the tracks will begin again.

Listening to XM Satellite Radio

ALL CH mode



CATEGORY mode



You can use the navigation system to control an XM satellite digital tuner (e.g. GEX-P10XMT), which is sold separately.
For details concerning operation, refer to the XM tuner's operation manuals. This section provides information on XM operations with navigation system which differs from that described in the XM tuner's operation manual.
Only the logo data that is contained in the navigation DVD Map Disc can be displayed for each channel. The icon of a newly established channel that is not contained in the disc cannot be displayed. When no icon can be displayed, the following substitute icon is displayed.

Substitute icon

❒ The logo data is not displayed during the memory navi mode.

❒ The following functions are not available on the GEX-P10XMT, GEX-P920XM.

— Switching the XM display

❒ The following functions are not available on the GEX-P910XM.

— Using the MyMix function
— Using the direct traffic announcement function
— Selecting a channel from the XM channel list display

❒ The following functions are not available on the GEX-P900XM.

— Using the MyMix function
— Using the direct traffic announcement function
— Selecting a channel from the XM channel list display
— Selecting an XM channel directly

(1) Source icon

(2) XM band indicator

(3) XM preset number indicator

(4) XM channel number indicator

(5) XM channel select mode indicator
Shows what channel select mode has been selected. You can select a channel from all channels in **ALL CH** (or **CH NUMBER**) mode, and select a channel from a selected category in **CATEGORY** mode.

➲ "Switching the XM channel select mode" ➞ Page 97

(6) XM channel category or XM channel information

(7) Detailed information or preset list display

(8) Category icon

➲ "Switching between the detailed information display and the preset list display" ➞ Page 97

1 Touch "XM" in the AV Source screen to select the XM.

➲ "Selecting an AV source" ➞ Page 32

2 Touch "Band" to select an XM band.
Touch "**Band**" repeatedly until the desired XM band is displayed: XM1, XM2 or XM3.

3 To perform tuning, touch ◄ Seek or Seek ►.
The channels move up or down step by step. If you keep touching ◄ Seek or Seek ►, you can increase or decrease channel number continuously. You can also perform manual tuning by pressing the ⏮ or ⏭ button.

❒ You can also perform tuning within selected channel category.

➲ "Selecting a channel in the channel category" ➞ Page 98

Switching the XM channel select mode

You can switch modes between the two methods for selecting and listing channels.

ALL CH Mode (or CH NUMBER Mode):
You can select a channel from all channels.

CATEGORY Mode:
You can select a channel within the selected category.

1 Touch "Mode" to select the desired channel select mode.
Touch "**Mode**" repeatedly to switch between the two modes.

Switching between the detailed information display and the preset list display

You can switch the left side of the basic screen according to your preference.

1 Touch "Detail" (or "Preset").
Each touch of "**Detail**" (or "**Preset**") changes the detail information display or preset list display.

Detail information display (e.g. ALL CH mode)

Preset list display (e.g. ALL CH mode)

Switching the XM display

1 Touch "Disp".
Each touch of "**Disp**" changes the information as follows:

GEX-P900XM:
Channel number — Channel name — Artist name/feature — Song/program title — Information

GEX-P910XM:
Channel name — Artist name/feature — Song/program title — Channel category

Storing and recalling broadcast stations

If you touch any of the preset tuning keys **Preset 1** (or **P1**) — **Preset 6** (or **P6**) you can easily store up to six broadcast stations for later recall with the touch of a key.

1 Select the channel that you want to store in memory.

2 Touch "Preset" to display the preset list.

3 Keep touching a preset tuning key Preset 1 (or P1) — Preset 6 (or P6) until the XM preset number (e.g., P.CH 1) stops flashing.
The number you have touched will flash in the XM preset number indicator and then remain lit. The selected station has been stored in memory.
The next time you touch the same preset tuning key **Preset 1** (or **P1**) — **Preset 6** (or **P6**) the station is recalled from memory.

❒ Up to 18 stations, 6 for each of three XM bands can be stored in memory.

❒ You can also touch ▲ Up or ▼ Down to recall stations assigned to preset tuning keys **Preset 1** (or **P1**) — **Preset 6** (or **P6**) in the detailed information display when the "**ALL CH** (or **CH NUMBER**)" mode is selected.

Selecting a channel in the channel category

1 Touch "Mode" to select the CATEGORY mode.

2 Touch ▲ Up or ▼ Down to select the desired category.

❒ You can also select the category by pressing the ⏮ or ⏭ button.

3 Touch ◄ Seek or Seek ► to select the desired channel within the selected category.

❒ When using the GEX-P10XMT or GEXP920XM, press and hold the ⏮ or ⏭ button to continuously move up or down the channels in the category.

Selecting a channel from the XM channel list display

The list content can be switched so you can search for the track you want to listen to not only by the channel name but also by the artist name or song title.

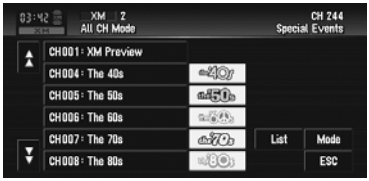
❒ The channel list shows all the channels during the "**ALL CH**" mode, and the channels included in the selected category during the "**CATEGORY**" mode. To switch the channel mode, touch "**Mode**".

1 Touch "List".

The XM channel list appears in the display. Each touch of "**List**" changes the settings as follows:

Detail information display or Preset list display — **Ch Name List** (Channel name) — **Song Title List** (Song title) — **Artist Name List** (Artist name)

2 Touch the desired channel that you want to listen to.



Press ⏫ or ⏬ to switch to the next page or the previous page.

❒ In the **CATEGORY** mode, touch ▲ Up or ▼ Down to switch to another category.

Selecting an XM channel directly

You can select an XM channel directly by entering the desired channel number.

1 Touch "Direct".

2 Touch 0 — 9 to input the desired channel number.

To cancel the input numbers, touch "**Clear**".

3 While the input number is displayed, touch "Enter".

The entered XM channel is selected.

4 Touch "Back".

You can return to the previous display.

Using the MyMix function

The MyMix function memorizes the song title and artist name of the song currently being received. When a track that matches the memorized song title and artist name is being broadcast on a station other than the one you are listening to, you will be alerted, and you can switch the station to listen to that song.

❒ A track itself is NOT downloaded BUT only the song title and the artist name are memorized.

Memorizing the song title and the artist name of a song

The song title and artist name of the song you are listening to can be memorized.

1 Touch “Memo”.
The song title and artist name of the song you are listening to are memorized, and a confirmation message appears.

❒ Up to 12 song titles and artist names can be memorized. Trying to save more than 12 tracks will overwrite old ones.

❒ You cannot memorize the song title or the artist name when “– – – – – – – –” is displayed on the title information.

❒ You cannot memorize the song title or the artist name of the channel 000.

❒ There is a possibility the memorized title is not displayed correctly.

When the memorized track is broadcast

A beep sounds, and a message is displayed. Touch “**Yes**” to switch to that station and listen to that track.

❒ If the memorized track is not selected in the MyMix list, no notification will be provided even when that track is broadcast.

❒ Notification may not be provided depending on the situation of the Navigation System.

➲ “Setting the notification of memorized tracks” → Page 100

❒ If there is slight difference between the memorized title and the title of the track being broadcast, no notification will be provided even though they are the same song.

Using the direct traffic announcement function

You can listen to a memorized traffic channel by directly calling it up with the **TRFC** touch key.

Memorize a traffic channel

1 Tune in to a Traffic channel.

2 Touch and hold “TRFC” for two seconds or more.
The traffic channel will be memorized.

❒ The channels 000 and 001 can not be memorized (although the channel 001 is the default).

Calling up the memorized traffic channel

1 Touch “TRFC”.

❒ You can also perform this operation by touching “**TRAFFIC**” in the AV source screen.

❒ You can call up a traffic channel from sources other than XM.

❒ To cancel traffic announcement, touch **TRFC Off**.

Display the Radio ID

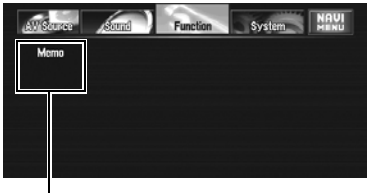
If you select CH: 000, the Radio ID is displayed.

1 Touch “Direct”.

2 Input “000” and then touch “Enter”.
If you select another channel, display of the Radio ID is canceled.
Display of the Radio ID repeats displaying “**RADIO ID**” and the ID code one after the other.

❒ You can also display the Radio ID to select “**RADIO ID**” from channel category in the **CATEGORY** mode.

Advanced XM tuner operation



(1) Function display

➲ How to display the **Function** menu → Page 79 to 80

Setting the notification of memorized tracks

The list of song titles memorized for the MyMix Function (MyMix list) is displayed. You can change the notification setting when the track is broadcast again. You can enable or disable notification for each track.

1 Touch "Memo" in the Function menu.

2 Touch the song title that you want to exclude from the notification list.

The check mark is removed, and the song title is excluded from the notification list.

Deleting the memorized tracks

You can delete each one of the memorized tracks from the song title list.

1 Touch "Memo" in the Function menu.

2 Touch the track you want to delete and hold it for two seconds or more.

That track will be deleted from the song title list.

❒ To delete all of the memorized tracks, then "**Delete All**".

3 A message will appear asking you to confirm the deletion. Touch "Yes".

Switching the alert setting

You can enable or disable alerts for all items at the same time. This function is useful when you want to turn alerts off temporarily without changing the condition of each memorized song.

1 Touch "Memo" in the Function menu.

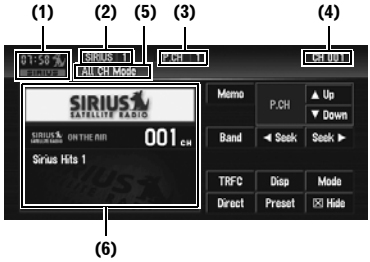
2 Touch "Alert On" or "Alert Off".

❒ Touch to toggle the selection.

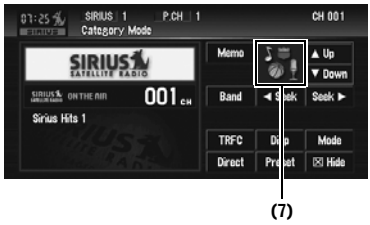
SIRIUS Tuner

Listening to SIRIUS

ALL CH mode



CATEGORY mode



You can use the navigation system to control a Pioneer Sirius satellite digital tuner, which is sold separately.

For details concerning operation, refer to the SIRIUS tuner's operation manuals. This section provides information on SIRIUS operations with navigation system which differs from that described in the SIRIUS tuner's operation manual.

❒ The following functions are not available on the SIR-PNR1.

— Selecting team for game alert
— Displaying game information
— Using the song alert function
— Using the direct traffic announcement function
— Using the MyMix function

(1) Source icon

(2) SIRIUS band indicator

(3) SIRIUS preset number indicator

(4) SIRIUS channel number indicator

(5) SIRIUS channel select mode indicator
Shows what channel select mode has been selected. You can select a channel from all channels in **ALL CH** mode, and select a channel from the selected category in **CATEGORY** mode.

➲ "Switching the SIRIUS channel select mode" ➞ Page 101

(6) Detailed information or preset list display

(7) Category icon

1 Touch "SIRIUS" in the AV Source screen to select the SIRIUS tuner.

➲ "Selecting an AV source" ➞ Page 32

2 Touch "Band" to select a SIRIUS band.
Touch "**Band**" repeatedly until the desired SIRIUS band is displayed, SIRIUS1, SIRIUS2 or SIRIUS3.

3 To perform tuning, touch ◄ Seek or Seek ►.
The channels move up or down. Channels that cannot currently be selected are skipped, and the next channel is selected. If you keep touching ◄ Seek or Seek ►, you can increase or decrease channel number continuously. You can also perform manual tuning by pressing the ⏮ or ⏭ button.

Switching the SIRIUS channel select mode

You can switch modes between the two methods for selecting and listing channels.
ALL CH Mode:
You can select a channel from all channels.
CATEGORY Mode:
You can select a channel within selected category.

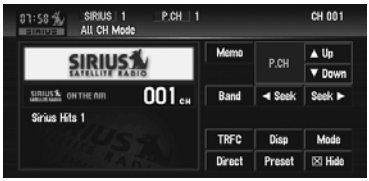
1 Touch "Mode" to select the desired channel select mode.
Touch "**Mode**" repeatedly to switch between the two modes.

Switching between the detailed information display and the preset list display

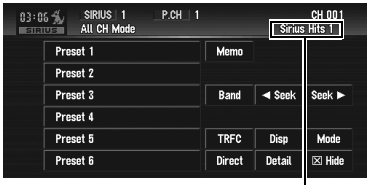
You can switch the left side of the basic screen according to your preference.

1 Touch "Detail" (or "Preset").
Each touch of "**Detail**" (or "**Preset**") changes the detail information display or preset list display.

Detail information display (e.g. ALL CH mode)



Preset list display (e.g. ALL CH mode)



SIRIUS channel information

Storing and recalling broadcast stations

If you touch any of the preset tuning keys **Preset 1** — **Preset 6** to easily store up to six broadcast stations for later recall with the touch of a key.

1 Select the channel that you want to store in memory.

2 Touch "Preset" to display the preset list.

3 Keep touching a preset tuning key Preset 1 — Preset 6 until the SIRIUS preset number (e.g., P.CH 1) stops flashing.
The number you have touched will flash in the SIRIUS preset number indicator and then remain lit. The selected station has been stored in memory.
The next time you touch the same preset tuning key **Preset 1** — **Preset 6** the station is recalled from memory.

❒ Up to 18 stations, 6 for each of three SIRIUS bands can be stored in memory.

❒ You can also touch ▲ Up or ▼ Down to recall stations assigned to preset tuning keys **Preset 1** — **Preset 6** in the detailed information display when the "**ALL CH**" mode is selected.

Selecting a channel in the channel category

1 Touch "Mode" to select the CATEGORY mode.

2 Touch ▲ Up or ▼ Down to select the desired category.

❒ You can also select the category by pressing the ⏮ or ⏭ button.

3 Touch ◄ Seek or Seek ► to select the desired channel within the selected category.

Switching the display

1 Touch "Disp".

Touching "**Disp**" changes the information as follows:

Channel number — Channel name — Channel category — Artist name/feature — Song/program title — Composer

❒ When using the SIR-PNR2, touch and hold "**Disp**" to switch the information scroll On/Off.

Selecting a SIRIUS channel directly

You can select a SIRIUS channel directly by entering the desired channel number.

1 Touch "Direct".

2 Touch 0 — 9 to input the desired channel number.

To cancel the input numbers, touch "**Clear**".

3 While the input number is displayed, touch "Enter".

The entered SIRIUS channel is selected.

4 Touch "Back".

You can return to the previous display.

Using the MyMix function

The MyMix function memorizes the song title and artist name of the song currently being received. When a track that matches the memorized song title and artist name is being broadcast on a station other than the one you are listening to, you will be alerted, and you can switch the station to listen to that song.

❒ A track itself is NOT downloaded BUT only the song title and the artist name are memorized.

Memorizing the song title and the artist name of a song

The song title and artist name of the song you are listening to can be memorized.

1 Touch "Memo".

The song title and artist name of the song you are listening to are memorized, and a confirmation message appears.

❒ Up to 12 song titles and artist names can be memorized. Trying to save more than 12 tracks will overwrite old ones.

❒ You cannot memorize the song title or the artist name when "– – – – – – – –" is displayed on the title information.

❒ You cannot memorize the song title or the artist name of the channel 000.

❒ There is a possibility the memorized title is not displayed correctly.

When the memorized track is broadcast

A beep sounds, and a message is displayed. Touch "**Yes**" to switch to that station and listen to that track.

❒ If the memorized track is not selected in the MyMix list, no notification will be provided even when that track is broadcast.

❒ Notification may not be provided depending on the situation of the Navigation System.

➲ "Setting the notification of memorized tracks" → Page 103

❒ If there is slight difference between the memorized title and the title of the track being broadcast, no notification will be provided even though they are the same song.

Using the direct traffic announcement function

You can listen to a memorized traffic channel by directly calling it up with the **TRFC** touch key.

Memorize a traffic channel

1 Tune in to a Traffic channel.

2 Touch and hold "TRFC" for two seconds or more.
The traffic channel will be memorized.

❒ The channels 000 and 001 can not be memorized (although the channel 001 is the default).

Calling up the memorized traffic channel

1 Touch "TRFC".
- ❒ You can also perform this operation by touching "**TRAFFIC**" in the AV source screen.
- ❒ You can call up a traffic channel from sources other than SIRIUS.
- ❒ To cancel traffic announcement, touch "**TRFC Off**".

Display the Radio ID

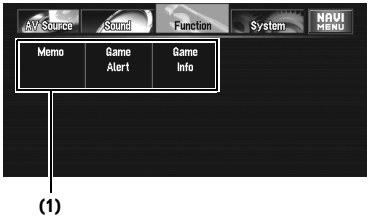
If you select CH: 000, the Radio ID is displayed.

1 Touch "Direct".

2 Input "000" and then touch "Enter".
If you select another channel, display of the Radio ID is canceled.
Display of the Radio ID repeats displaying "**RADIO ID**" and the ID code one after the other.

❒ You can also display the Radio ID to select "**RADIO ID**" from channel category in the **CATEGORY** mode.

Advanced SIRIUS tuner operation



(1) Function display

➲ How to display the **Function** menu → Page 79 to 80

Setting the notification of memorized tracks

Display the song title list memorized for the MyMix Function (MyMix list). You can change the setting of the notification when the track is broadcast again. You can enable or disable notification for each track.

1 Touch "Memo" in the Function menu.

2 Touch ◄ or ► to select the desired song.

3 Touch "On / Off" to turn "On" the setting.
- ❒ Touch "**On / Off**" again to turn the setting "**Off**".

Deleting the memorized tracks

You can delete each one of the memorized tracks from the song title list.

1 Touch "Memo" in the Function menu.

2 Touch "Previous" or "NEXT" to select the song title that you want to delete.

3 Touch "Delete".

4 A message will appear asking you to confirm the deletion. Touch "Yes".

Switching the alert setting

You can enable or disable alerts for all items at the same time. This function is useful when you want to turn alerts off temporarily without changing the condition of each memorized song.

1 Touch "Memo" in the Function menu.

2 Touch "Alert On" or "Alert Off".

❒ Touch to toggle the selection.

Selecting teams for Game Alert

This navigation system can alert you when games involving your favorite sports teams are about to start. To use this function you need to store the teams you like to follow in advance.

1 Touch "Game Alert" in the Function menu.

2 Touch ◀ or ▶ to select the desired league.

3 Touch ◀ or ▶ to select the desired team.

4 Touch "On / Off" to turn the setting "On".

❒ Touch "**On / Off**" again to turn the setting "**Off**".

Switching the Game Alert setting

You can enable or disable alerts for all items at the same time. This function is useful when you want to turn alerts off temporarily without changing the condition of each memorized team.

1 Touch "Game Alert" in the Function menu.

2 Touch "Alert On" or "Alert Off".

❒ Touch to toggle the selection.

Displaying Game Information

An alert will be displayed when a game with the team you selected is about to start (or is currently playing). You can also display game information and changes to the broadcast channel.

❒ The Game Information function is available when the **Game Alert** function is turned on.

1 Touch "Game Info" in the Function menu.

The game name and the broadcast channel are displayed.

2 Touch "Tune To".

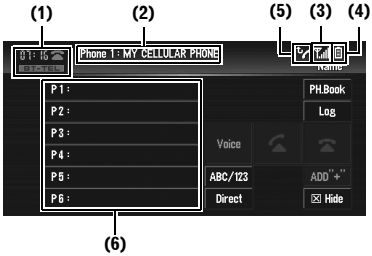
❒ The game score will be updated automatically.

❒ When no game is currently being broadcast, "**NO GAME**" is displayed.

3 Touch ◀ or ▶ to see if any other games are playing.

Hands-free Phoning

Hands-free phoning with cellular phones featuring Bluetooth technology



(The screen when the registered phone is connected)

If you use a Bluetooth adapter (e.g. CD-BTB200)(sold separately), you can connect a cellular phone featuring Bluetooth wireless technology to this unit for hands-free, wireless calls, even while driving. For details concerning operation, refer to the Bluetooth adapter's operation manual. This section provides brief information on the hands-free phoning operations with this unit that slightly differs or is cut short from the operations described in the Bluetooth adapter's operation manual.

❒ Since this unit is always on standby to connect with your cellular phones via Bluetooth wireless technology, using this unit without running the engine can result in battery drainage.

(1) Source icon

(2) Device name indicator

(3) Signal level indicator

❒ If the signal is not available, ( ) is displayed.

❒ Depending on the cellular phones featuring Bluetooth technology, this indicator may not show on the screen.

(4) Battery strength indicator

❒ Battery strength indicator may differ from the actual battery strength.

❒ Depending on the cellular phones featuring Bluetooth technology, this indicator may not show on the screen.

(5) Missed call notice indicator

(6) Preset list display

❒ This navigation system's phone call reception is always on standby when the ignition switch is set to ACC or ON.

❒ The line-of-sight distance between this navigation system and your cellular phone must be 10 meters or less when sending and receiving voice and data via Bluetooth technology. However, the transmission distance may become shorter than the estimated distance, depending on the environment in use.

❒ When **BT-TEL** is selected as a source, equalizer curves are automatically changed to suitable settings for the phone source. When the source is changed or returned to another source, equalizer settings automatically return to the original settings.

❒ When **BT-TEL** is selected as a source, functions other than **FAD/BAL** are inoperable in the Sound menu.

About the telephone source standby mode

Once connected via Bluetooth wireless technology, this navigation system will remain on telephone source standby in the background while the connection is sustained. This means you can freely use the other functions of this system but still be ready to receive a call.

Setting up for hands-free phoning

Before you can use the hands-free phoning function you will need to set up the navigation system for use with your cellular phone. This entails establishing a Bluetooth wireless connection between the system and your phone, registering your phone with the system and adjusting the volume level.

1 Connection

Your phone should already be temporarily connected. However, to make best use of the functions, we recommend you register the phone to the navigation system.

➲ "Connecting a cellular phone" ➞ Page 109

2 Registration

Register the phone to take full advantage of the features available with Bluetooth wireless technology.

➲ "Registering your cellular phone" ➞ Page 111

3 Adjust the volume level

Adjust the volume on your cellular phone and the navigation system for comfort.

- ❒ The caller's voice volume and ring volume may vary depending on the type of the cellular phone.
- ❒ If the difference between the ring volume and caller's voice volume is large, the overall volume level may become unstable.
- ❒ Before disconnecting cellular phone from this navigation system, make sure to adjust the volume to a proper level.

Making a call by entering phone number

The most basic way to make a call is to simply dial the number.

1 Touch "BT-TEL" in the AV Source screen to select the cellular phone source.

➲ "Selecting an AV source" ➞ Page 32

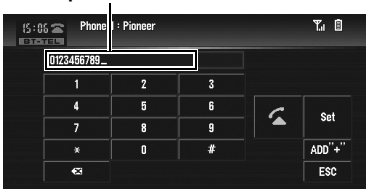
2 Touch "Direct".

The direct dial screen appears.

3 Touch the number keys to enter the phone number.

The input phone number is displayed below the device name.

Input number



"ADD "+"":

Adds or deletes + before the phone number.

⌫:

The input number is deleted letter by letter from the end of the number. Continuing to press deletes all of the numbers.

"Set":

Change to the preset dial list screen. You can assign the input number to the preset dial list.

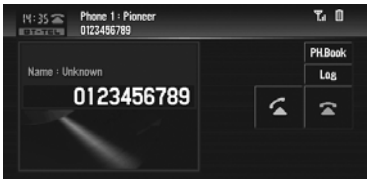
➲ "Registering phone numbers to the preset dial list" ➞ Page 107

"ESC":

Return to the previous screen.

4 Touch to make a call.

- ❒ The estimated call time appears in the display.
- ❒ The estimated call time in the display may differ from the actual call time.



- ❒ The name (if registered on the phone book) and phone number are displayed.

5 Touch to end the call.

Making a call from the history list

The most recent calls made (dialled), received and missed are stored in the call history list. You can browse the call history list and call numbers from it.

- ❒ Up to 12 calls are stored in each list.
- ❒ The call history is stored only when the registered phone is connected to this navigation system.

1 Touch "Log".

The history list screen appears.

2 Touch "Log" to change the list.

- ❒ Each touch of "**Log**" changes the lists as follows:
  Missed calls list — Dialed calls list — Received calls list
- ❒ Touching ▲ or ▼ switches to the next or previous page in the list.

3 Touch the desired phone number.

- ❒ Touching "**ADD "+"**" adds or deletes + before the phone number.
- ❒ Each touch of "**ABC/123**" changes the display on the list between the name and the phone number.
- ❒ If the name is not registered in the phone book "**No Name**" will be displayed.
- ❒ If a incoming call number is not available to display, "**–**" will be appear instead of the number.

4 Touch to make a call.

- ❒ The estimated call time appears in the display.
- ❒ The estimated call time in the display may differ from the actual call time.

5 Touch to end the call.

Making a call from the preset dial list

You can easily store up to 6 phone numbers and later recall them with the touch of a preset key.

Registering phone numbers to the preset dial list

1 Select or input a phone number you want to assign to the preset dial list.

- ➲ Input the number directory ➞ Page 106
- ➲ Use the call history list ➞ Page 106
- ➲ Use the phone book ➞ Page 107

2 Touch and hold one of preset keys P1 to P6 until the beep sounds.

The selected phone number is stored in memory. The next time you touch the same preset keys, the phone number is recalled from memory.

- ❒ If a phone number other than registered in the phone book is stored in the preset, "**No Name**" will be displayed.
- ❒ If a phone book entry is edited after the entry is stored in the preset dial list, the edit will not be reflected to the list.

Calling a number in the preset dial list

1 Touch one of preset keys P1 to P6.

The phone number registered to the selected preset key is displayed.

- ❒ Touching "**ADD "+"**" adds or deletes + before the phone number.
- ❒ Each touch of "**ABC/123**" changes the display on the list between the name and the phone number.

2 Touch to make a call.

- ❒ The estimated call time appears in the display.
- ❒ The estimated call time in the display may differ from the actual call time.

3 Touch to end the call.

Calling a number in the phone book

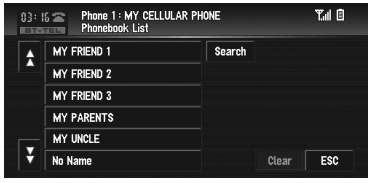
After finding the entry in the phone book you want to call, you can select the number and make the call.

- ❒ Before using this function, you need to transfer the phone book in your cellular phone to this navigation system.

➲ "Transferring the phone book" ➞ Page 111

1 Touch "PH.Book".

The phone book list screen appears.



- ❒ Touching ▲ or ▼ switches to the next or previous page in the list.
- ❒ You can search the phone book entry by alphabet.

➲ “Searching the phone book entry by alphabet” → Page 108

2 Touch a phone book entry you want to call.
The detailed list of the selected entry appears.

3 Touch a number you want to call.
- ❒ Touching “**ADD ”+”**” adds or deletes + before the phone number.

4 Touch to make a call.
- ❒ The estimated call time appears in the display.
- ❒ The estimated call time in the display may differ from the actual call time.

5 Touch to end the call.

Searching the phone book entry by alphabet

If there are many entries in the phone book list, it can be useful to display them in the alphabetical order for easier searching.

1 Touch “PH.Book”.
The phone book list screen appears.

2 Touch “Search”.
The phone book search screen appears.

3 Input the first letter of the entry in the phone book list you want to search, then touch “OK”.
The phone book list screen reappears. The search result is reflected, and the matched entry in the phone book list is displayed.
- ❒ If no entry is found by the search, “**No Data**” is displayed and “**OK**” is inactive.
- ❒ Touching “**Clear**” resets the search result and displays the original phone book list.

The characters contained in “**Next**” in the phone book edit screen are treated in the same way as other alphabets when searching. For example, when you use such as “**A**”, “**a**” or “**Å**” the result to come out is the same.

Making a call via voice recognition

If your cellular phone features voice recognition technology, you can make a call by voice commands.

- ❒ This function is available only if your cellular phone features voice recognition function.
- ❒ Operation varies depending on the type of your cellular phone. For more details concerning operation, refer to the instruction manual of your cellular phone.
- ❒ This function can be operated only when the connection is established by HFP (Hands Free Profile).

1 Touch “Voice”.
Voice recognition function of the cellular phone is now ready.
- ❒ If your cellular phone does not feature voice recognition function, **No voice dial** appears in the display and operation is not available.

2 Pronounce the name of your contact.
For more details concerning the voice recognition operation, refer to your cellular phone’s instruction manual.

Taking a phone call

Answering an incoming call

Even when a source other than **BT-TEL** is selected, you can still answer an incoming call.

1 When a call comes in, touch .
The estimated call time appears in the display.
- ❒ The estimated call time in the display may differ from the actual call time.
- ❒ You can set this navigation system to automatically answering incoming calls.

➲ “Setting the automatic answering” → Page 114

2 To end the call, touch .

- ❒ You may hear a noise when you disconnect the phone.
- ❒ You can also perform this operation by pressing the PHONE button.

Answering call waiting

If a call comes in while you are talking on the phone, the number of the new caller appears in the display to signal that you have call waiting. You can put the first caller on hold while you answer the call waiting.

1 Touch to answer call waiting.

2 Touching switches between callers on hold.

3 Touch to end the call(s).

- ❒ Depending on the cellular phone that is connected to this navigation system via Bluetooth technology, the first caller will be kept on hold.
- ❒ You can also answer and end call waiting by pressing the **PHONE** button.

Rejecting call waiting

If you would rather not interrupt your current call to answer call waiting, you can reject it.

1 Touch to reject call waiting.

- ❒ You can also reject call waiting by pressing and holding the **PHONE** button.
- ❒ The number you have rejected is not added to the call history list.

Rejecting an incoming call

You can reject an incoming call.

➲ If you want to set this navigation system to automatically rejecting all incoming calls, refer to “Setting the automatic rejecting” → Page 114

1 When a call comes in, touch .

The call is rejected.

- ❒ You can also reject an incoming call by pressing and holding the **PHONE** button.
- ❒ The rejected call is recorded in missed call history list.

➲ “Making a call from the history list” → Page 106

Advanced hands-free phoning operation

(1) Function display

➲ How to display the **Function** menu → Page 79 to 80

- ❒ When your cellular phone is not connected, you cannot select “**Phonebook Transfer**” or “**Clear Memory**”.
- ❒ You can only select “**Echo Cancel**” while transmitting or receiving a call, or during conversation.

Connecting a cellular phone

To use a phone wirelessly with the navigation system, it is necessary first to establish a connection using Bluetooth wireless technology. There are several ways you can do this.

- ❒ Connection is normally established by HFP (Hands Free Profile), which gives you full control of functions available on the telephone source.
  However, in some cases when you make connection from your cellular phone, the connection may be made by HSP (Head Set Profile) and several functions may not be available.
- ❒ A phone may be connected via Bluetooth wireless technology but not yet registered with the navigation system. In this case it is said to be temporarily connected, and the available features are limited. To take full advantage of all the features available, we recommend you register your phone with this navigation system.
  The limited features are;
  - Preset dial list
  - Call history list
  - Phone book

➲ “Registering your cellular phone” → Page 111

❒ If "**Auto Connect**" is set to "**On**", cellular phone that has already been registered is connected automatically.

➲ "Setting the automatic connection" ➞ Page 114

Using a cellular phone to initiate a connection

Putting the navigation system in Connection open mode allows you to establish a Bluetooth wireless connection from your cellular phone.

1 Touch "Phone Connect" in the Function menu.

The phone connection menu screen appears.

2 Touch "Connection Open".

"**Pairing**" is flash in the display.

3 Use a cellular phone to connect to the navigation system.

Connection to the cellular phone starts. When the connection is established, the device name of the connected cellular phone is displayed.

❒ Operation varies depending on the type of your cellular phone. Refer to the instruction manual that came with your cellular phone for detailed instructions.

❒ To complete the connection, please check the device name (**Pioneer BT unit2**) and enter the PIN code (**0000**) on your cellular phone.

➲ "Editing the PIN code" ➞ Page 129

Searching for available cellular phones

You can have the navigation system search for any available phones in the area that have Bluetooth wireless technology, then select which one you want to connect to from a list displayed onscreen.

1 Touch "Phone Connect" in the Function menu.

The phone connection menu screen appears.

2 Touch "Search".

When available cellular phones featuring Bluetooth wireless technology are found, device names are displayed.

❒ While Searching, "**Search**" is flash in the display.

❒ If the navigation system fails to find any available cellular phones, **Phone Not Found** is displayed.

❒ Touching "**Phone Name**" changes the list between the device name and the BD address.

3 Touch a device name you want to connect.

Connection to the cellular phone starts. When the connection is established, the device name of the connected cellular phone is displayed.

❒ To complete the connection, you may need to enter the PIN code (**0000**) on your cellular phone.

➲ "Editing the PIN code" ➞ Page 129

Connecting to a registered cellular phone

Once your phone is registered with the navigation system, it is a simple matter to establish a Bluetooth wireless connection when a registered phone is within range.

1 Touch "Phone Connect" in the Function menu.

The phone connection menu screen appears.

2 Touch "Direct Connect".

The registered phone list is displayed.

3 Touch a device name you want to connect.

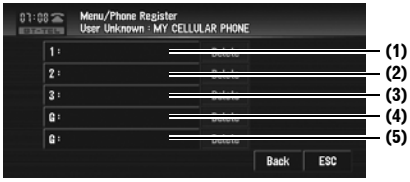
Connection to the cellular phone starts. When the connection is established, the device name of the connected cellular phone is displayed.

Registering your cellular phone

You can register a phone that is temporarily connected to the navigation system in order to take full advantage of the features available with Bluetooth wireless technology. A total of five phones can be registered: three user cellular phones and two guest phones. When registered as a user phone, all the possible functions are available for use. When registered as a guest phone, some functions are limited.

1 Touch "Phone Register" in the Function menu.

The phone register screen appears.



(1) 1:
User phone 1
(2) 2:
User phone 2
(3) 3:
User phone 3
(4) G:
Guest phone 1
(5) G:
Guest phone 2

2 Touch and hold "1: " — "3: " or "G: ".

When the registration is completed, the device name is displayed.

Displaying BD (Bluetooth Device) address

Each device featuring Bluetooth technology is allocated a unique 48-bit device address. It consists of a 12-digit of hexadecimal string. This navigation system can display the BD address of your registered cellular phone featuring Bluetooth technology.

1 Touch "Phone Connect" in the Function menu.

The phone connection menu screen appears.

2 Touch "Phone Name".

The 12-digit hexadecimal string is displayed.

❒ Without connecting, you cannot select "**Phone Name**". Connect your cellular phone first.

➲ "Connecting a cellular phone" ➞ Page 109

Disconnecting a cellular phone

When you are done using your phone with the navigation system, you can close the Bluetooth wireless connection.

1 Touch "Phone Connect" in the Function menu.

The phone connection menu screen appears.

2 Touch "Disconnect".

After the disconnection is completed, **No Connection** is displayed.

Deleting a registered phone

If you no longer need to use a registered phone with the navigation system, you can delete it from the registration assignment to free it for another phone.

❒ If a registered phone is deleted, all the phone book entries and call history lists correspond to the phone will be also cleared.

1 Touch "Phone Register" in the Function menu.

The phone register screen appears.

2 Touch "Delete" on the right-hand side of the device name of the cellular phone you want to delete.

The deletion confirmation message appears.

3 Touch "Yes".

The registered phone is deleted.

❒ When not deleting a registered phone, select "**No**".

Transferring the phone book

You can transfer the numbers in a registered user phone's address book into the phone book.

❒ If a guest phone is connected to this navigation system via Bluetooth technology, this function cannot be selected.

- ❒ With some cellular phones, it may not be possible to transfer the entire phone book at once. In this case, transfer addresses one at a time from your phone book using your cellular phone.
- ❒ The phone book can hold a total of 500 entries;
  User phone 1: 300 entries
  User phone 2: 150 entries
  User phone 3: 50 entries
- ❒ Each entry can hold up to 5 phone numbers.
- ❒ Depending on the cellular phone that is connected to this navigation system via Bluetooth technology, this navigation system may not be able to display the phone book correctly. (Some characters may be garbled.)
- ❒ If the phone book in the cellular phone contains image data, phone book may not be correctly transferred.

1 Touch "Phonebook Transfer" in the Function menu.

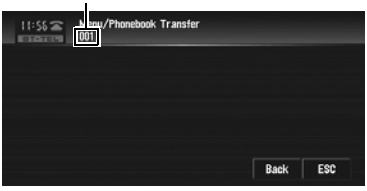
The phonebook transfer screen appears.

- ❒ Hands-free phoning connection is disconnected to establish the connection for phone book transfer. The navigation system now ready to be transferred the phone book from the phone.

2 Use cellular phone to perform phone book transfer.

The phone book in the cellular phone is transferred to the navigation system. Transfer progress is displayed.

Number of completed transfers



Completed is displayed when the phone book transfer is finished.

- ❒ If all the phone book entries are not transferred at a time, repeat Step 2 to transfer the phone book entries one by one.

Changing the phone book display order

You can choose to display the phone book sorted alphabetically by first name or family name.

- ❒ This function is available while the registered phone is connected.

1 Touch "Phonebook Name View" in the Function menu.

Touching "**Phonebook Name View**" switches between "**Invert**" and "**Original**".

- ❒ If a phone book entry is edited, the display order of first name and family name will not be changed.
- ❒ With some cellular phones, this feature may not be possible.

Editing the phone book

You can edit the phone numbers or names registered in the phone book.

1 Touch "PH.Book".

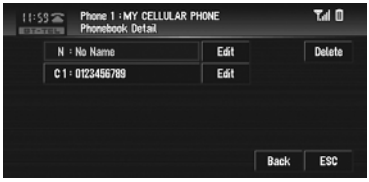
The phone book list screen appears.

- ❒ Touching ⏫ or ⏬ switches to the next or previous page in the list.
- ❒ You can search the phone book alphabetically.
- ➲ "Searching the phone book entry by alphabet" → Page 108

2 Touch a phone book entry you want to edit.

The detailed list of the selected entry appears.

3 Touch "Edit" on the right-hand side of the phone number or the name of the information you want to edit.

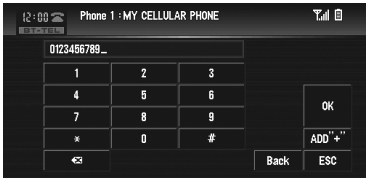


The phone number edit screen or the name edit screen appears.

4 Input the text or number.

Phone number edit screen

You can input numbers.



"ADD "+"":

Adds or deletes + before the phone number.

⌫:

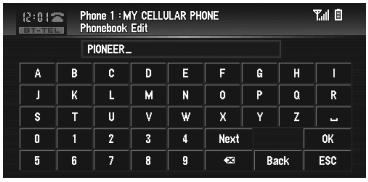
The input number is deleted letter by letter from the end of the numbers. Continuing to press deletes all of the numbers.

"OK":

The change is fixed, and the phone book edit screen reappears.

Name edit screen

You can input letters or numbers.



"Next":

Each touch of the "**Next**" changes the characters that can be input as follows:

Upper case letters — lower case letters — upper case symbols — lower case symbols

⌫:

The input text is deleted letter by letter from the end of the text. Continuing to press deletes all of the text.

"OK":

The change is fixed and the phone book edit screen reappears.

❒ Each name can be input 16 characters long.

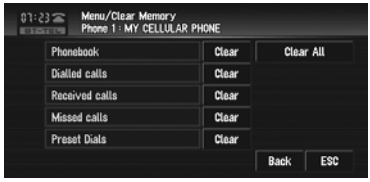
Clearing memory

You can clear the memory of each item that corresponds to the connected cellular phone: phone book, dialled/received/missed call history list and preset dials.

1 Touch "Clear Memory" in the Function menu.

The clear memory screen appears.

2 Touch "Clear" on the right-hand side of the item that you want to clear memory for.



On this screen, you can select the following items:

Phonebook:

You can clear the registered phone book.

Dialled Calls:

You can clear the dialed call history list.

Received Calls:

You can clear the received call history list.

Missed Calls:

You can clear the missed call history list.

Preset Dials:

You can clear the registered preset dials.

❒ Touching "**Clear**" displays the confirmation message for clearing the memory.

❒ Touching "**Clear All**" clears all the data that correspond to the connected cellular phone.

3 Touch "Yes".

Data on the selected item is cleared from this navigation system's memory.

❒ If you do not want to clear memory that you have selected, touch "**No**".

Setting the automatic answering

If you set the automatic answering function on, the navigation system automatically answers all incoming calls.

1 Touch "Auto Answer" in the Function menu.

Touching "**Auto Answer**" switches between "**On**" and "**Off**".

Setting the automatic rejecting

If this function is on, the navigation system automatically rejects all incoming calls.

1 Touch "Refuse All Calls" in the Function menu.

Touching "**Refuse All Calls**" switches between "**On**" and "**Off**".

- ❒ If both the automatic reject and automatic answer functions are set to **On**, automatic reject is prioritized and all incoming calls are automatically rejected.
- ❒ If the "**Refuse All Calls**" is set to "**On**", rejected incoming calls will not be stored in the missed call list.

Setting a ring tone

The navigation system offers to turn the ring tone for incoming calls on or off.

- ❒ The ring tone you select for this navigation system has no effect on the ring tone used by your phone. If you do not want your phone and this navigation system to ring at the same time, we recommend you turn the ring tone off for one or the other.

1 Touch "Ring Tone" in the Function menu.

Touching "**Ring Tone**" switches between "**On**" and "**Off**".

Setting the automatic connection

When automatic connection is active the navigation system will automatically establish a connection with a registered phone when it comes into range. Using this feature will release you from all of the processes for establishing a connection.

- ❒ With some cellular phones, it may not be possible to perform automatic connection.
- ❒ While you are operating in the function menu of hands-free phoning, this unit does not initiate an automatic connection to your registered phone.

1 Touch "Auto Connect" in the Function menu.

Touching "**Auto Connect**" switches between "**On**" and "**Off**".

- ❒ Automatic connection is performed in the registration number order.

Echo canceling and noise reduction

When you are operating hands-free phoning in the vehicle, you may hear an undesired echo. This function reduces the undesired echo and noise while you are doing hands-free phoning, and maintains a certain sound quality.

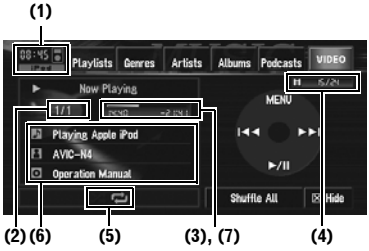
1 Touch "Echo Cancel".

Touching "**Echo Cancel**" switches between "**On**" and "**Off**".

iPod

You can control an iPod by combining the iPod cable (e.g. CD-I200) (sold separately) to the navigation system.
For details concerning operation, refer to the iPod's owner's manual.

Operating iPod



➲ "Advanced iPod operation" ➞ Page 117

❒ Some functions cannot be reproduced depending on the generation of the iPod.

❒ If the authorisation error occurs when an iPod with video compatibilities is connected to the navigation system, the icon is displayed.

➲ "Problems in the AV screen (during iPod playback)" ➞ Page 152

❒ The ⏮ and ⏭ buttons on the hardware are the same function as ⏮ and ⏭ in the screen.

(1) Source icon

(2) Track number indicator

(3) Play time indicator

(4) Chapter indicator
When the source with chapters played, the indicator appears.

(5) Repeat/Shuffle indicator
The marks shown below indicate the current playback status.

: All-tracks repeat
: One-track repeat
: Shuffle

(6) Song title, Artist name and Album title indicator
Displays the song title, artist name and album title.

: Song title
: Artist name
: Album title

(7) Play time bar

Touch key operation (MUSIC)

1 Connect the iPod to the navigation system.

2 Touch "iPod" in the AV Source screen to select the iPod.
➲ "Selecting an AV source" ➞ Page 32

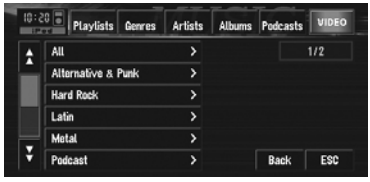
3 To skip backward or forward to another track, touch ⏮ or ⏭.
Touching ⏭ skips to the start of the next track. Touching ⏮ once skips to the start of the current track. Touching again will skip to the previous track.
When the track with chapters played, touching ⏭ skips to the start of the next chapter. Touching ⏮ once skips to the start of the current chapter. Touching again will skip to the previous chapter.

4 To perform fast backward or forward, keep touching ⏮ or ⏭.

Browsing for a song

The operations of this navigation system for controlling an iPod are designed to imitate iPod operation. This allows you to search and play songs as you would with an iPod.

1 Touch one of the categories in which you want to search for a song.
- **Playlists** (playlists)
- **Genres** (genres)
- **Artists** (artists)
- **Albums** (albums)
- **Podcasts** (podcasts)



The search screen is displayed.

- ❒ When connected to an iPod that can handle podcasts, you can search by podcast.
- ❒ When you select **Artists**, **Albums**, or **Genres** keep touching one of the list in the category makes the songs in the list as a playlist and start playing.

2 Touch the item you want to refine.

- ❒ Refine the item until the track title is displayed on the list.

3 From the track list, touch the track you want to play.

- ❒ To go to the next track list, touch ▽.
- ❒ To return to the previous track list, touch △.
- ❒ When the iPod operation screen appears after selecting a song, touch "**MENU**" to display the previous playlist.

Performing random play with one touch

All of the selected songs can be played at random by only touching one key.

1 Touch "Shuffle All".

- ❒ To cancel the random play, switch "**Shuffle**" to "**Off**" in the **Function** menu.

Touch key operation (VIDEO)

This navigation system can play video if an iPod with video capabilities is connected.

- ❒ Change the video setting on the iPod so that the iPod can output the video to an external device, before you display the video screen.
- ❒ For details about the settings, refer to the iPod's owner's manual.

1 Touch "VIDEO".

Touch "**MUSIC**" in step 2 to return to the music operation screen.

2 Touch one of the categories that contains the video you want to play.

3 Touch the screen to display to touch panel keys.

- ❒ To return to the category selection screen, touch "**Top Menu**".
- ❒ When the iPod operation screen appears after selecting a video, touch "**MENU**" to display the previous playlist.

4 To skip back or forward to another video, touch ⏮ or ⏭.

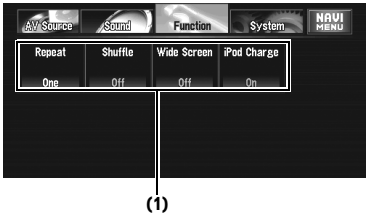
Touching ⏭ skips to the start of the next video. Touching ⏮ once skips to the start of the current video. Touching again will skip to the previous video.

When the video with chapters played, touching ⏭ skips to the start of the next chapter. Touching ⏮ once skips to the start of the current chapter. Touching again will skip to the previous chapter.

5 To perform fast forward or rewind, keep touching ⏮ or ⏭.

If you keep touching ⏮ or ⏭ for five seconds, fast rewind/ fast forward continues even if you release ⏮ or ⏭. To resume playback at a desired point, touch ⏯, ⏮ or ⏭.

Advanced iPod operation



(1) Function display

➲ How to display the **Function** menu ➞ Page 79 to 80

Repeating play

There are two repeat play types for the iPod: **One** (one-track repeat) and **All** (all-tracks repeat).

1 Touch "Repeat" in the Function menu.
Each touch of "**Repeat**" changes the settings as follows:

- **One** — Repeat just the current track
- **All** — Repeat all tracks in the selected list

Shuffle play

This function shuffles tracks or albums and plays them in random order.

1 Touch "Shuffle" in the Function menu.
Each touch of "**Shuffle**" changes the settings as follows:

- **Off** — Does not shuffle.
- **Songs** — Shuffles tracks.
- **Albums** — Shuffles albums.

❒ When you set "**Albums**", the albums are shuffled but the tracks in the album will not be shuffled (The tracks in the album will be played from the first track).

Wide Screen

If the video is compatible with wide screen format, set the **Wide Screen** setting to **On** in order to view the video image in wide screen.

1 Touch "Wide Screen" in the Function menu.
Touching "**Wide Screen**" switches between "**On**" or "**Off**".

❒ When you select the video after setting "**Wide Screen**", display size is changed.

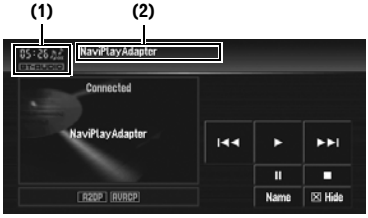
Turning on or off charging for the iPod

The iPod charging setting can be turned on or off. If the video from an iPod with video capabilities seems fuzzy, turning off the charging setting may improve the video quality.

1 Touch "iPod Charge" in the Function menu.
Touching "**iPod Charge**" switches between "**On**" or "**Off**".

Bluetooth Audio

Listening to songs on BT Audio (Bluetooth audio player)



If you connect a Bluetooth adapter (e.g. CD-BTB200)(sold separately) to this unit, you can control a Bluetooth audio player via Bluetooth wireless technology. For details concerning operation, refer to the Bluetooth adapter's operation manual. This section provides brief information on Bluetooth audio player operations with this unit that slightly differs or is cut short from the operations described in the Bluetooth adapter's operation manual.

- ❒ Even if your audio player does not contain a Bluetooth module, you can still control it from this unit via Bluetooth wireless technology. To control your audio player by using this unit, connect a product featuring Bluetooth wireless technology (available on the market) to your audio player and connect Bluetooth adapter (e.g. CD-BTB200) to this unit.
- ❒ Depending on the Bluetooth audio player connected to this navigation system, the available operations with this navigation system are limited to the following two levels:
  - — Lower level: Only playing back songs on your audio player is possible.
  - — Higher level: Playing back, pausing, selecting songs, etc., are possible (all the operations illustrated in this manual).
- ❒ Since there are a number of Bluetooth audio players available on the market, operations with your Bluetooth audio player using this navigation system vary greatly in range. Please refer to the instruction manual that came with your Bluetooth audio player as well as this manual while operating your player on this navigation system.
- ❒ Information about songs (e.g. the elapsed playing time, song title, song index, etc.) cannot be displayed on this navigation system.
- ❒ While you are listening to songs on your Bluetooth audio player, please refrain from operating your cellular phone as much as possible. If you try operating on your cellular phone, the signal from your cellular phone may cause a noise on the song playback.
- ❒ When you are talking on the cellular phone connected to this navigation system via Bluetooth wireless technology, the song playback from your Bluetooth audio player connected to this navigation system is muted.
- ❒ Even if you switch to another source while listening to a song on your Bluetooth audio player, the playback of song continues to elapse.
- ❒ Depending on the Bluetooth audio player you connected to this navigation system, operations on this navigation system to control the player may differ from those explained in this manual.

(1) Source icon

(2) Device name
Touching "**Name**" switches between equipment name and BD address.

1 Touch "BT-AUDIO" in the AV Source screen to select the Bluetooth audio source.

➲ "Selecting an AV source" ➞ Page 32

- ❒ For this navigation system to control your Bluetooth audio player it needs to establish a Bluetooth wireless connection. (Refer to "Connecting a Bluetooth audio player" on page 119.)

2 Touch ▶.
Playback starts.

3 To skip back or forward to another track, touch ⏮ or ⏭.
Touching ⏭ skips to the start of the next track. Touching ⏮ once skips to the start of the current track. Touching it again will skip to the previous track.

4 To perform fast forward or reverse, keep touching ⏮ or ⏭.

5 To stop playback, touch ■.

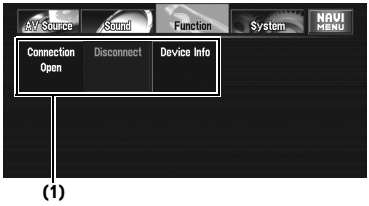
Pausing track playback

Pause lets you temporarily stop track playback.

1 Touch ⏸.
Play of the current track pauses.

❒ To resume playback at the same point that you turned pause on, touch ⏸ again.

Advanced BT-Audio operation



(1) Function display

➲ How to display the **Function** menu → Page 79 to 80

Connecting a Bluetooth audio player

1 Touch "Connection Open" in the Function menu to turn the connection open on.
Pairing is displayed. This navigation system is now on standby for connection from Bluetooth audio player.
If your Bluetooth audio player is set ready for Bluetooth wireless connection, the connection to this navigation system will be automatically established.

❒ Before you can use audio players you may need to enter the PIN code into this navigation system. If your player requires a PIN code to establish a connection, look for the code on the player or in its accompanying documentation. Enter the PIN code referring to page 110.

Disconnecting a Bluetooth audio player

1 Touch "Disconnect" in the Function menu.
After the disconnection is completed, **No Connection** is displayed.

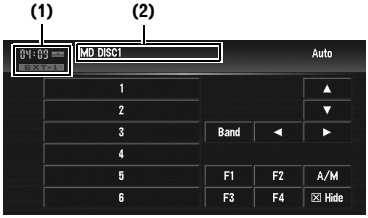
Displaying BD (Bluetooth Device) address

1 Touch "Device Info" in the Function menu to display the BD address.
Various information regarding the Bluetooth wireless technology are displayed.

- **BD ADDRESS (system address)**
- **SYSTEM NAME (system name)**
- **SYSTEM VER. (version)**
- **BT MODULE VER. (Bluetooth module version)**

External Unit

Operating the external unit



The term “external unit” refers to a Pioneer product (such as one available in the future) that, although incompatible as a source, enables control of basic functions by the navigation system. Two external units can be controlled by the navigation system. When two external units are connected, the navigation system allocates them to external unit 1 or external unit 2.
For details concerning operation, refer to the external unit’s operation manual. This section provides information on external unit operations with the navigation system that differ from those described in the external unit’s operation manual.

❒ Operation varies depending on the external unit connected. (In some cases, the external unit may not respond.)

(1) Source icon

(2) External unit indicator

1 Touch “EXT-1” or “EXT-2” in the AV Source screen to select the external unit.

➲ “Selecting an AV source” ➞ Page 32

2 Touch any touch panel key to operate the external unit.

Operate the external unit by using 1 KEY — 6 KEY

The external unit can be operated by transmitting the operating commands set to **1 KEY** — **6 KEY**.

❒ Operation varies depending on the external unit connected. (In some cases, the external unit may not respond.)

1 Touch desired key (“1 KEY” — “6 KEY”) to operate the external unit.

Operate the external unit by using F1 — F4

The external unit can be operated by transmitting the operating commands set to **F1** — **F4**.

❒ The operating commands set to **F1** — **F4** vary depending on the external unit.

❒ Some functions may not be used until you touch and hold the key.

1 Touch “F1” — “F4”.
The operation command is transmitted to the external unit.

Switching the automatic and manual function

You can turn automatic and manual function on or off.
You can switch between **Auto** and **Manual** functions of the external unit connected.
Initially, this function is set to **Auto**.

❒ Operating commands set for **Auto** and **Manual** operations vary depending on the external unit connected.

1 Touch “A / M”.
Touching “**A / M**” switches between “**Auto**” and “**Manual**”.

AV Input (AV)

⚠ CAUTION

- **For safety reasons, visual images cannot be viewed while your vehicle is in motion. To view visual images, you must stop in a safe place and apply the parking brake (see page 13 Interlock for details).**

Selecting AV as the source

1 Touch "AV-1" or "AV-2" in the AV Source screen to select AV as the source.

➲ "Selecting an AV source" ➞ Page 32

❒ If you want to switch AV source, select "**Video**" in "**AV1 Input**" or "**AV2 Input**".

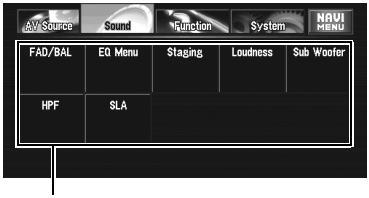
➲ "Setting the video input" ➞ Page 131

Customizing the AV Source Setting

Various settings are available with the audio source according to your audiovisual requests. This chapter describes the methods of changing the various settings and how to set of the LCD panel.

Audio Adjustments

Introduction to audio adjustments



(1)

(1) Sound display
Shows the audio function names.

➲ How to display the **Sound** menu ➞ Page 79

❒ Only when the subwoofer controller setting is **Preout Full**, **Non Fading** will be displayed instead of **Sub Woofer**.

➲ "Setting the rear output and subwoofer controller" ➞ Page 129

❒ When selecting the FM tuner as the source, you cannot switch to "**SLA**".

Using the equalizer

The equalizer lets you adjust the equalization to match vehicle interior acoustic characteristics as desired.

Recalling equalizer curves

There are seven stored equalizer curves which you can easily recall at any time. Here is a list of the equalizer curves:

Equalizer curve
S.Bass **S.Bass** is a curve in which only low-pitched sound is boosted.
Powerful **Powerful** is a curve in which low-pitched and high-pitched sounds are boosted.
Natural **Natural** is a curve in which low-pitched and high-pitched sounds are slightly boosted.
Vocal **Vocal** is a curve in which the midrange, which is the human vocal range, is boosted.
Flat **Flat** is a flat curve in which nothing is boosted.
Custom1 **Custom1** is an adjusted equalizer curve that you create.
Custom2 **Custom2** is an adjusted equaliser curve that you create.

1 Touch "EQ Menu" in the Sound menu.

2 Select the desired equalizer curve.

❒ **Custom1** and **Custom2** are adjusted equalizer curves.

❒ When **Flat** is selected, no supplement or correction is made to the sound. This is useful to check the effect of the equalizer curves by switching alternatively between **Flat** and a set equalizer curve.

Using balance adjustment

You can select a fader/balance setting that provides an ideal listening environment in all occupied seats.

1 Touch "FAD/BAL" in the Sound menu.
When the rear output setting is **Rear SP Sub. W**, **Balance** will be displayed instead of **FAD/BAL**.
➲ "Setting the rear output and subwoofer controller" → Page 129

2 Touch ▲ or ▼ to adjust front/rear speaker balance.
Each time you touch ▲ or ▼ moves the front/rear speaker balance towards the front or the rear.
Front:15 to **Rear:15** is displayed as the front/rear speaker balance moves from front to rear.
Both **Front:0** and **Rear:0** are the proper setting when only two speakers are used.
When the rear output setting is **Rear SP Sub. W**, you cannot adjust front/rear speaker balance.
➲ "Setting the rear output and subwoofer controller" → Page 129

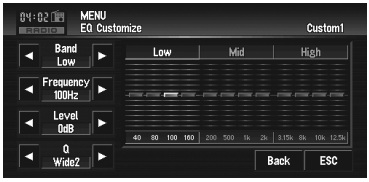
3 Touch ◀ or ▶ to adjust left/right speaker balance.
Each time you touch ◀ or ▶ moves the left/right speaker balance towards the left or the right.
Left:9 to **Right:9** is displayed as the left/right speaker balance moves from left to right.

Adjusting equalizer curves

You can adjust the currently selected equalizer curve setting as desired. Adjusted equalizer curve settings are memorized in **Custom1**.

❒ If you make **Custom2** adjustments, **Custom2** curve is updated.

❒ You can adjust the center frequency, level and the Q factor (curve characteristics) of each currently selected curve band (**Low**/**Mid**/**High**).



• **Band**:
You can select the equalizer band.

• **Frequency**:
You can select which frequency to be set as the center frequency.

• **Level**:
You can select the decibel (dB) level of the selected EQ.

• **Q**:
You can select the details of the curve characteristics.

1 Touch "EQ Menu" in the Sound menu.

2 Touch "Customize".

3 Touch ◀ or ▶ to select the equalizer band to adjust.
Each time you touch ◀ or ▶ selects equalizer bands in the following order:
Low — **Mid** — **High**

4 Touch ◀ or ▶ to select the desired frequency.
Touch ◀ or ▶ until the desired frequency appears in the display.
Low: **40** — **80** — **100** — **160** (Hz)
Mid: **200** — **500** — **1K** — **2K** (Hz)
High: **3.15K** — **8K** — **10K** — **12.5K** (Hz)

5 Touch ◀ or ▶ to adjust the level of the equalizer band.
Each time you touch ◀ or ▶ increases or decreases the level of the equalization band.
+12 to **–12** is displayed as the level is increased or decreased.

6 Touch ◀ or ▶ to select the desired Q factor.
Touch ◀ or ▶ until the desired Q factor appears in the display.
Wide2 — **Wide1** — **Narrow1** — **Narrow2**
❒ If you make adjustments, **Custom1** curve is updated.

Setting the simulated sound stage

You can select the desired effect from various simulated sound stage, such as Music Studio or Dynamic Theater. You can also adjust a listener positioning effect.

Setting a stage that fits your image

1 Touch "Staging" in the Sound menu.

2 Touch the desired stage setting.

- ❒ The "**Living Room**" setting that emphasizes midrange sound hardly has any effect near the maximum volume level.
- ❒ When you set staging other than "**Off**", the high pass filter (**HPF**) setting turns "**Off**".
- ➲ "Using the high pass filter" → Page 126

Adjusting a position effect

You can select a listener position that you want to make as the center of sound effects.

1 Touch "Staging" in the Sound menu.

2 Touch "Position".

3 Touch the desired position.

Adjusting loudness

Loudness compensates for deficiencies in the low- and high-sound ranges at low volume.

1 Touch "Loudness" in the Sound menu.

2 Touch "On" to turn loudness on.
To turn loudness off, touch "**Off**".

3 Touch ◀ or ▶ to select a desired level.
Each time you touch ◀ or ▶ selects level in the following order:
Low — Mid — High

Using subwoofer output

The navigation system is equipped with a subwoofer output which can be turned on or off.

- ❒ When the subwoofer output is on, you can adjust the cut-off frequency, the output level and the phase of the subwoofer.

1 Touch "Sub Woofer" in the Sound menu.
When **Preout** (the subwoofer controller setting in **Initial** menu) is **Full**, you cannot select "**Sub Woofer**".
- ➲ "Setting the rear output and subwoofer controller" → Page 129

2 Touch "On" to turn subwoofer output on.
To turn subwoofer output off, touch "**Off**".

3 Touch "Reverse" or "Normal" to select the phase of subwoofer output.

4 Touch "+" or "–" to adjust the output level of the subwoofer.
+6 to **–6** is displayed as the level is increased or decreased.

5 Touch ◀ or ▶ to select cut-off frequency.
Each time you touch ◀ or ▶ selects cut-off frequencies in the following order:
50 — **80** — **125** (Hz)
Only frequencies lower than those in the selected range are output from the subwoofer.

Using non fading output

When the non fading output setting is on, the audio signal does not pass through navigation system's low pass filter (for the subwoofer), but is output through the RCA output.

1 Touch "Non Fading" in the Sound menu.
Only when **Preout** (the subwoofer controller setting in **Initial** menu) is **Full**, you can select "**Non Fading**".
- ➲ "Setting the rear output and subwoofer controller" → Page 129

2 Touch "On" to turn non fading output on.
To turn non fading output off, touch "**Off**".

3 Touch "+" or "–" to adjust the output level of the non fading.
+6 to **–6** is displayed as the level is increased or decreased.

Using the high pass filter

When you do not want low sounds from the subwoofer output frequency range to play from the front or rear speakers, turn the **HPF** (high pass filter) on. Only frequencies higher than those in the selected range are output from the front or rear speakers.

1 Touch "HPF" in the Sound menu.

2 Touch "On" to turn high pass filter on.
To turn high pass filter off, touch "**Off**".

3 Touch ◄ or ► to select cut-off frequency.
Each time you touch ◄ or ► selects cut-off frequencies in the following order:
50 — **80** — **125** (Hz)
When **Preout** (the subwoofer controller setting in **Initial** menu) is **Sub. W**, the **HPF** function is effective for front speakers only.

Adjusting source levels

SLA (source level adjustment) lets you adjust the volume level of each source to prevent radical changes in volume when switching between sources.

- Settings are based on the FM tuner volume level, which remains unchanged.

1 Compare the FM tuner volume level with the level of the source you wish to adjust.

2 Touch "SLA" in the Sound menu.

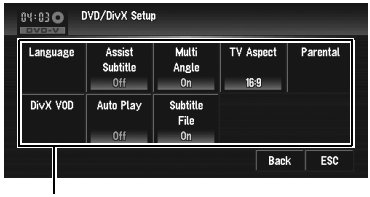
3 Touch "+" or "–" to adjust the source volume.
+4 to **–4** is displayed as the source volume is increased or decreased.
Sources are set to same source level adjustment volume automatically.

- CD, ROM, DivX, S-DVD and M-DVD
- **EXT-1**and **EXT-2**
- **AV-1** and **AV-2**
- **XM** and **SIRIUS**

Setting Up the DVD/DivX Player

Configure the DVD/DivX player.

DVD/DivX Setup adjustments



(1)

(1) DVD/DivX Setup menu display

1 Play the disc that contains DVD-Video or DivX.

2 Press the MENU button to change to the AV MENU.

3 Touch "Function".

4 Touch "DVD/DivX Setup".

5 Touch the desired function.

Setting the language

You can set a desired subtitle, audio and menu language. If the selected language is recorded on the disc, subtitles, audio and menu are displayed in that language.

1 Touch "Language" and then touch "Subtitle Language", "Audio Language" or "Menu Language".
Each language menu is displayed and the currently set language is selected.

2 Touch the desired language.
When you select "**Others**", a language code input display is shown. Input the four digit code of the desired language then touch "**Enter**".

➲ "Language Code Chart for DVD" ➞ Page 134

❒ If the selected language is not recorded on the disc, the default language specified on the disc is output and displayed.

❒ You can also switch the subtitle and audio language by touching "**S.Title**" or "**Audio**" during playback.

➲ "Changing the subtitle language during playback (Multi-subtitle)" → Page 85

➲ Changing audio language during playback (Multi-audio) → Page 85

❒ Even if you use "**S.Title**" or "**Audio**" to switch the subtitle or audio language, this does not affect the settings here.

Setting assist subtitles on or off

Assist subtitles offer explanations for the aurally impaired. However, they are only displayed if they are recorded on the DVD.
You can turn assist subtitles on or off as desired.

1 Touch "Assist Subtitle".
Touching "**Assist Subtitle**" switches between "**On**" and "**Off**".

Setting angle icon display

You can set to display the angle icon on scenes where the angle can be switched.

1 Touch "Multi Angle".
Touching "**Multi Angle**" switches between "**On**" and "**Off**".

Setting the aspect ratio

There are two kinds of display. A wide screen display has a width-to-height ratio (TV aspect) of 16:9, while a regular display has a TV aspect of 4:3. Be sure to select the correct TV aspect for the display connected to **REAR OUT** (**VIDEO OUT**).

❒ When using a regular display, select either **Letter Box** or **Panscan**. Selecting **16:9** may result in an unnatural picture.

❒ If you select the TV aspect, navigation system's display changes to the same setting.

1 Touch "TV Aspect".
Each touch of the **TV Aspect** changes the settings as follows:

- **16:9** — Wide screen picture (16:9) is displayed as it is (initial setting)
- **Letter Box** — The picture is in the shape of a letter box with black bands at the top and bottom of the screen
- **Panscan** — The picture is cut short at the right and left of the screen

❒ When playing discs that do not specify **Panscan**, playback is with **Letter Box** even if you select the **Panscan** setting. Confirm whether the disc package bears the 16 : 9 LB mark. (See "What the Marks on DVDs Indicate" on page 18.)

❒ Some discs do not enable changing of the TV aspect. For details, refer to the disc's instructions.

Setting the parental lock

Some DVD-Video discs let you use parental lock to restrict the viewing of violent and adult oriented scenes by children. You can set the parental lock level in steps as desired.

❒ When you set a parental lock level and then play a disc featuring parental lock, code number input indications may be displayed. In this case, playback will begin when the correct code number is input.

Setting the code number and level

When you first use this function, register your code number. If you do not register a code number, parental lock will not operate.

1 Touch "Parental".

2 Touch "Parental".

3 Touch 0 — 9 to input a four digit code number.

4 While the input number is displayed, touch "Enter".
The code number is registered, and you can now set the level.

5 Touch any of 1 — 8 to select the desired level.
The parental lock level is set.

- **Level 8** — Playback of the entire disc is possible (initial setting)
- **Level 7** — **Level 2** — Playback of discs for children and non-adult oriented discs is possible

- **Level 1** — Playback of discs for children only is possible

❒ If you want to change the parental level, enter the registered code number in the Step 2.

❒ We recommend to keep a record of your code number in case you forget it.

❒ The parental lock level is recorded on the disc. You can confirm it by looking at the disc package, included literature or on the disc itself. With discs that do not feature a recorded parental lock level, you cannot use parental lock.

❒ With some discs, parental lock operates to skip certain scenes only, after which normal playback resumes. For details, refer to the disc's instructions.

❒ If you forget the registered code number, touch "**Clear**" 10 times on the screen in the Step 2. The registered code number is canceled, letting you register a new one.

Displaying your DivX® VOD registration code

In order to play DivX VOD (video on demand) content on this navigation system, you first need to register the unit with your DivX VOD content provider. You do this by generating a DivX VOD registration code, which you submit to your provider.

1 Touch "DivX VOD".

Your 8-digit registration code is displayed.

❒ Make a note of the code as you will need it when you register with a DivX VOD provider.

Setting the Auto Play

When a DVD disc with DVD menu is inserted, this unit will cancel the DVD menu automatically and start playback from the first chapter of the first title.

❒ This function is available for DVD-Video.

❒ Some DVDs may not operate properly. If this function is not fully operated, turn this function off and start playback.

1 Touch "Auto Play".

Touching "**Auto Play**" switches between "**On**" and "**Off**".

❒ When the automatic playback is on, you cannot operate repeating play of DVD disc.

➲ Refer to repeating play of DVD disc ➞ Page 83

Setting the Subtitle File

You can select whether to display DivX external subtitles or not.

❒ The DivX subtitles will be displayed even when "**On**" is selected if no DivX external subtitle files exist.

➲ "DivX subtitle files" ➞ Page 161

1 Touch "Subtitle File".

Touching "**Subtitle File**" switches between "**On**" and "**Off**".

❒ Up to 42 characters can be displayed on one line. If more than 42 characters are set, the line breaks and the characters are displayed on the next line.

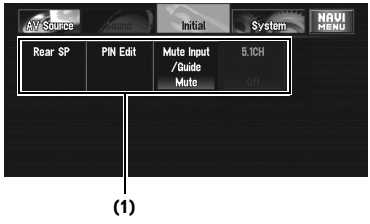
❒ Up to 126 characters can be displayed on one screen. If more than 126 characters are set, the excess characters will not be displayed.

❒ The DivX subtitles will be displayed even when the subtitle file setting is on if no corresponding subtitle files exist.

❒ Up to three lines can be displayed at once.

Initial Settings

Adjusting initial settings



Initial settings lets you perform initial set up of different settings for navigation system.

(1) Function display

1 Touch "OFF" in the AV Source screen to turn source off.

➲ "Basic AV Source" ➞ Page 32

2 Press the MENU button to change to the AV MENU.

3 Touch "Initial".

Setting the rear output and subwoofer controller

The navigation system's rear output (rear speaker leads output and RCA rear output) can be used for full-range speaker (**Rear SP Full**) or subwoofer (**Rear SP Sub. W**) connection. If you switch the rear output setting to the **Rear SP Sub. W**, you can connect a rear speaker lead directly to a subwoofer without using an auxiliary amp.
Initially, the navigation system is set for rear full-range speaker connection (**Rear SP Full**). When rear output is connected to full range speakers (when **Rear SP Full** is selected), you can connect the RCA subwoofer output to a subwoofer. In this case, you can select whether to use the subwoofer controller's (low pass filter, phase) built-in **Preout Sub. W** or the auxiliary **Preout Full**.

❒ When 5.1ch setting is "**On**", the rear output and subwoofer setting is not available.

1 Touch "Rear SP" in the Initial menu.

2 Touch "Rear SP" to switch the rear output setting.
When no subwoofer is connected to the rear output, select **Full**.
When a subwoofer is connected to the rear output, select **Sub. W**.

❒ When the rear output setting is **Sub. W**, you cannot change the subwoofer controller.

3 Touch "Preout" to switch the subwoofer output or non fading output.

❒ Even if you change this setting, there is no output unless you turn "**Non Fading**" or "**Sub Woofer**" in the **Sound** menu "**On**".

➲ "Using non fading output" ➞ Page 125
➲ "Using subwoofer output" ➞ Page 125

❒ If you change the subwoofer controller (**Rear SP**), the subwoofer output (**Sub Woofer**) and non fading output (**Non Fading**) in the **Sound** menu return to the factory settings.

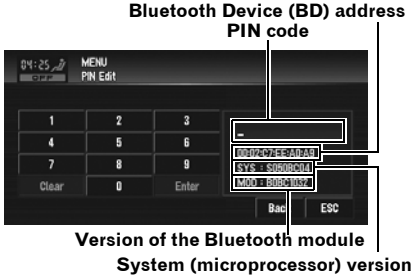
❒ Both rear speaker leads output and RCA rear output are switched simultaneously in this setting.

Editing the PIN code

You can edit the PIN code you like. Use this function when you need to change the PIN code from the default setting.

1 Touch "PIN Edit" in the Initial menu.

2 Touch number key to enter the new PIN code.



3 Touch "Enter" to fix the new PIN code.

❒ The default setting of the PIN code is **0000**.

Switching the sound muting/attenuation

Sound from this system is muted, attenuated or mixed automatically in the following cases:

- When a call is made or received using a cellular phone connected to navigation system.
- When the voice guidance is output.

❒ The sound muting/attenuation function does not work when you use a cellular phone connected to the navigation system via the Bluetooth adapter, which is sold separately.

❒ When 5.1ch setting is "**On**", the sound muting/attenuation setting is not available.

1 Touch "Mute Input/Guide" in the Initial menu.

Each touch of the "**Mute Input/Guide**" changes the settings as follows:

- **Mute**— Muting
- **ATT** — Attenuation
- **Normal** — Volume does not change

❒ Operation returns to normal when the phone connection (the mute signal on the yellow/black lead) is ended or when the navigation guidance is ended.

❒ Even when you receive a phone call, navigation voice guidance cannot be attenuated or muted. Use **Volume** to control the navigation voice guidance volume.

Switching the 5.1CH setting

When the navigation system is combined with the multi-channel processor system (sold separately), you can use the multi-channel sound. Enter the following setting when combining the multi-channel processor system.

⚠ CAUTION

- **DO NOT enter this setting before you connect the multi-channel processor system. (If this setting is entered, the RCA ("SUB-WOOFER OUTPUT or NON-FADING OUTPUT") will output maximum volume for the multi-channel processor system.) Pioneer is not responsible for any damage to the speaker equipment caused by ignoring this warning.**

❒ This setting is possible only when the optical cable connection box (supplied with the Multichannel processor) is connected to the navigation system.

1 Touch "5.1CH" in the Initial menu.

If you touch "**5.1CH**", it will be turned "**On**". If you touch "**5.1CH**" again to turn "**Off**".

Other Functions

Selecting the video for "Rear display"

You can choose either to show the same image as the front screen or to show the selected source on the "Rear display".

1 Press the AV button to switch AV operation screen.

2 Press the MENU button and then touch "REAR SCREEN".

Each touch of "**REAR SCREEN**" changes the settings as follows:

- **Mirror** — The video on the front screen of the navigation unit is output to the "Rear display"
- **DVD** — The video and sound of the DVDs are output to the "Rear display"
- **AV1** — The video and sound of the **AV-1** are output to the "Rear display"
- **AV2** — The video and sound of the **AV-2** are output to the "Rear display"

❒ When **Mirror** is selected, the following restrictions are applied to "Rear display".

— When selecting "**Rear View**" in the map display, nothing is displayed.

— All sounds cannot be output for "Rear display".

— The map screen navigation images output to the "Rear display" differ from standard NTSC format images. Therefore, their quality will be inferior to the images that appear on the front screen.

❒ When **DVD** is selected, the following restrictions are applied to "Rear display".

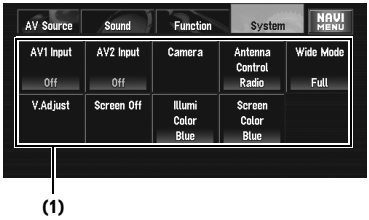
— When a CD or MP3/WMA/AAC disc is set in the built-in DVD drive, nothing is output.

❒ When **AV1/AV2** is selected, the following restrictions are applied to "Rear display".

— The "Video image" and sound are output only when the **AV-1/AV-2** has both video and sound.

— The “Video image” and sound are output only when the appropriate setting on “**AV1 Input**” / “**AV2 Input**”.

Setup adjustments



(1) System menu display

➲ How to display the **System** menu ➞ Page 79

Setting the video input

You can switch the setting according to the connected component.

❒ Select “**Video**” to watch video of a connected component as **AV-1** or **AV-2** source.

1 Touch “AV1 Input” or “AV2 Input” in the System menu.

Each touch of the “**AV1 Input**” or “**AV2 Input**” changes the settings as follows:

AV1 Input:

- **Off** — No video component is connected
- **Video** — External video component
- **EXT** — Pioneer external unit connected with RCA video cable
- **M-DVD** — DVD player or Multi-DVD player connected with IP-BUS cable.

❒ When a DVD player or Multi-DVD player is connected with IP-BUS cable and RCA video cable, select **M-DVD**. When the AV source is **M-DVD**, the “Video image” of the DVD player or Multi-DVD player can be displayed.

AV2 Input:

- **Off** — No video component is connected
- **Video** — External video component

❒ When a Pioneer external unit is connected with an IP-BUS cable, select **EXT**. When the audio source is **EXT**, the “Video image” of the Pioneer external unit can be displayed.

❒ Use **AV2 Input** when connecting CD-RM10 (sold separately) through the external video component.

Setting for rear view camera

The following two functions are available. The rear view camera feature requires a separately sold rear view camera (e.g. ND-BC2). (For details, consult your dealer.)

Camera for backing up

The navigation system features a function that automatically switches to the full-screen rear camera image installed on your vehicle. When the shift lever is in the REVERSE (R) position, the screen automatically switches to full-screen rear view camera.

Camera for Rear view mode

Rear View can be displayed at all times (e.g. when monitoring an attached trailer, etc.) as a split screen where map information is partially displayed. Please be aware that in this setting, camera image is not resized to fit, and that a portion of what is seen by the camera is not viewable.

⚠ CAUTION

- **Pioneer recommends the use of a camera which outputs mirror reversed images, otherwise screen image may appear reversed.**

- Immediately confirm whether the display changes to a rear view camera image when the shift lever is moved to REVERSE (R) from another position.
- When the whole screen changes to a rear view camera image during normal driving, switch to another setting.

❒ Initially, this function is set to **Off**.

1 Touch “Camera” in the System menu.

2 Touch “Camera” to turn rear view camera setting on.

Touching “**Camera**” switches between “**On**” and “**Off**”.

❒ Unless this setting is “**On**”, you cannot switch to Rear View mode.

3 Touch "Polarity" to select an appropriate setting for polarity.

Each time you touch "**Polarity**" switches between the following polarity:

- **Battery** — When the polarity of the connected lead is positive while the shift lever is in the REVERSE (R) position
- **GND** — When the polarity of the connected lead is negative while the shift lever is in the REVERSE (R) position

Switching the auto antenna setting

If the blue lead of the navigation system is connected to the auto antenna of the vehicle, select either of the following settings.

- **Radio** — Extends the antenna only for the Radio source. The antenna is stored when the source is switched to another source.
- **Power** — Extends the antenna when the ignition switch is turned on. The antenna is stored when the ignition switch is turned off.

1 Touch "Antenna Control" in the System menu.

Touching "**Antenna Control**" switches between "**Radio**" and "**Power**".

❒ Regardless of whether "**Radio**" or "**Power**" is selected, turning off the ignition switch will cause the antenna to automatically retract.

Setting the illumination color

The illumination color can be selected **Blue** or **Red**.

1 Touch "Illumi Color" in the System menu.

2 Touch desired color.

Setting the screen color

You can select one of five colors as the screen color.

1 Touch "Screen Color" in the System menu.

2 Touch desired color.

- **White/Blue/Yellow/Red/Green**

Changing the Wide Screen Mode

⚠ CAUTION

- **For safety reasons, you cannot use some of these navigation functions while your vehicle is in motion. To enable these functions, you must stop in a safe place and apply the parking brake (see page 13 for details).**

1 Touch "Wide Mode" in the System menu to select the desired setting.

Touch "**Wide Mode**" repeatedly to switch between the following settings:
Full (full) — **Just** (just) — **Cinema** (cinema) — **Zoom** (zoom) — **Normal** (normal)

Full (full)
A 4:3 picture is enlarged in the horizontal direction only, enabling you to enjoy a 4:3 TV picture (normal picture) without any omissions.

Just (just)
The picture is enlarged slightly at the center and the amount of enlargement increases horizontally toward the ends of the picture, enabling you to enjoy a 4:3 picture without sensing any disparity even on a wide screen.

Cinema (cinema)
A picture is enlarged by the same proportion as **Just** in the horizontal direction and by an intermediate proportion between **Full** and **Zoom** in the vertical direction; ideal for a cinema-sized picture (wide screen picture) where captions lie outside the frame.

Zoom (zoom)
A 4:3 picture is enlarged in the same proportion both vertically and horizontally; ideal for a cinema-sized picture (wide screen picture).

Normal (normal)
A 4:3 picture is displayed as it is, giving you no sense of disparity since its proportions are the same as that of the normal picture.

❒ Different settings can be memorized for each video source.

❒ When video is viewed in a wide screen mode that does not match its original aspect ratio, it may appear differently.

❒ Remember that use of this system for commercial or public viewing purposes may constitute an infringement on the author's rights protected by the Copyright Law.

❒ Video will appear grainy when viewed in **Cinema** or **Zoom** mode.

❒ The navigation map and the rear view camera picture is always **Full**.

Operating the Picture Adjustment

⚠ CAUTION

- **For safety reasons, you cannot use some of these navigation functions while your vehicle is in motion. To enable these functions, you must stop in a safe place and apply the parking brake (see page 13 for details).**

1 Touch "V.Adjust" in the System menu.

2 Select the desired item you want to adjust.

- **Camera** — Switch to the picture adjustment display for the rear view camera
- **Source** — Switch to the picture adjustment display for the AV source screen
- **Map** — Switch to the picture adjustment display for the map screen

❒ When the display is already on the screen, a message to that effect appears.

Brightness — Adjust the black intensity
Contrast — Adjust the contrast
Color — Adjust the color saturation
Hue — Adjust the tone of color (red is emphasized or green is emphasized)
Dimmer — Adjust the brightness of display

❒ The adjustments of **Brightness**, **Contrast** and **Dimmer** are stored separately when your vehicle's headlights are off (daytime) and when your vehicle's headlight are on (nighttime). These are switched automatically depending on the vehicle's headlights are on or off.

❒ You cannot adjust **Color** and **Hue** for the source without a video and navigation map display.

❒ If you select "**Source**", sources without video and sources with video are saved separately in the memory.

❒ The picture adjustment may not be able to be used with some rear view cameras.

❒ The same setting is selected for the normal background picture and the navigation map display.

❒ Because of the LCD screen characteristics, you may not be able to adjust the screen at low temperatures.

3 Touch "+" or "–" to adjust the selected item.

Each time you touch "**+**" or "**–**" increases or decreases the level of selected item. **+24** to **–24** is displayed as the level is increased or decreased.

❒ **Dimmer** can be adjusted in the range of **+1** to **+48**.

4 Touch "ESC" to return to the previous screen.

Switching the backlight On/Off

By turning off the backlight of the LCD screen, you can turn off the screen display without turning off the voice guidance.

1 Touch "Screen Off" in the System menu.

The backlight turns off, and the screen turns off.

❒ To turn on the backlight, touch the screen again or press the **MAP** button.

Language Code Chart for DVD

Language (code), input code	Language (code), input code	Language (code), input code
Japanese (ja), 1001	Guarani (gn), 0714	Pashto, Pushto (ps), 1619
English (en), 0514	Gujarati (gu), 0721	Quechua (qu), 1721
French (fr), 0618	Hausa (ha), 0801	Rhaeto-Romance (rm), 1813
Spanish (es), 0519	Hindi (hi), 0809	Kirundi (rn), 1814
German (de), 0405	Croatian (hr), 0818	Rumanian (ro), 1815
Italian (it), 0920	Hungarian (hu), 0821	Kinyarwanda (rw), 1823
Chinese (zh), 2608	Armenian (hy), 0825	Sanskrit (sa), 1901
Dutch (nl), 1412	Interlingua (ia), 0901	Sindhi (sd), 1904
Portuguese (pt), 1620	Interlingue (ie), 0905	Sango (sg), 1907
Swedish (sv), 1922	Inupiak (ik), 0911	Serbo-Croatian (sh), 1908
Russian (ru), 1821	Indonesian (in), 0914	Shinghalese (si), 1909
Korean (ko), 1115	Icelandic (is), 0919	Slovak (sk), 1911
Greek (el), 0512	Hebrew (iw), 0923	Slovenian (sl), 1912
Afar (aa), 0101	Yiddish (ji), 1009	Samoan (sm), 1913
Abkhazian (ab), 0102	Javanese (jw), 1023	Shona (sn), 1914
Afrikaans (af), 0106	Georgian (ka), 1101	Somali (so), 1915
Amharic (am), 0113	Kazakh (kk), 1111	Albanian (sq), 1917
Arabic (ar), 0118	Greenlandic (kl), 1112	Serbian (sr), 1918
Assamese (as), 0119	Cambodian (km), 1113	Siswati (ss), 1919
Aymara (ay), 0125	Kannada (kn), 1114	Sesotho (st), 1920
Azerbaijani (az), 0126	Kashmiri (ks), 1119	Sundanese (su), 1921
Bashkir (ba), 0201	Kurdish (ku), 1121	Swahili (sw), 1923
Belorussian (be), 0205	Kirghiz (ky), 1125	Tamil (ta), 2001
Bulgarian (bg), 0207	Latin (la), 1201	Telugu (te), 2005
Bihari (bh), 0208	Lingala (ln), 1214	Tajik (tg), 2007
Bislama (bi), 0209	Laotian (lo), 1215	Thai (th), 2008
Bengali, Bangla (bn), 0214	Lithusnian (lt), 1220	Tigrinya (ti), 2009
Tibetan (bo), 0215	Latvian, Lettish (lv), 1222	Turkmen (tk), 2011
Breton (br), 0218	Malagasy (mg), 1307	Tagalog (tl), 2012
Catalan (ca), 0301	Maori (mi), 1309	Setswana (tn), 2014
Corsican (co), 0315	Macedonian (mk), 1311	Tongan (to), 2015
Czach (cs), 0319	Malayalam (ml), 1312	Turkish (tr), 2018
Welsh (cy), 0325	Mongolian (mn), 1314	Tsonga (ts), 2019
Danish (da), 0401	Moldavian (mo), 1315	Tatar (tt), 2020
Bhutani (dz), 0426	Marathi (mr), 1318	Twi (tw), 2023
Esperanto (eo), 0515	Malay (ms), 1319	Ukrainian (uk), 2111
Estonian (et), 0520	Maltese (mt), 1320	Urdu (ur), 2118
Basque (eu), 0521	Burmese (my), 1325	Uzbek (uz), 2126
Persian (fa), 0601	Nauru (na), 1401	Vietnamese (vi), 2209
Finnish (fi), 0609	Nepali (ne), 1405	Volapük (vo), 2215
Fiji (fj), 0610	Norwegian (no), 1415	Wolof (wo), 2315
Faroese (fo), 0615	Occitan (oc), 1503	Xhosa (xh), 2408
Frisian (fy), 0625	Oromo (om), 1513	Yoruba (yo), 2515
Irish (ga), 0701	Oriya (or), 1518	Zulu (zu), 2621
Scottish Gaelic (gd), 0704	Panjabi (pa), 1601	
Galician (gl), 0712	Polish (pl), 1612	

Appendix

Anti-theft function

You can set a password for the navigation system. If the back-up lead is cut or **RESET** button is pressed after the password is set, the navigation system prompts for the password next boot-up.
If the incorrect password is entered, the navigation and AV functions cannot be performed.

Setting the password

Set both the password and a hint phrase at the same time. Set a password based on the hint phrase. The hint phrase will remind you of the password in case you forget it.

1 With the map displayed, press the MENU button.

2 Touch “Settings” in the NAVI MENU.

3 Touch “System Options”.

4 Touch Area1, followed by Area2, and then touch and hold Area3.

The password setting screen appears.

5 Touch “Set password”.

6 Select a hint phrase.

❒ Touching ⏫ or ⏬ switches to the next or previous page in the list.

7 Touch “OK”.

8 Enter the password you want to set.

❒ Five to sixteen characters can be entered for a password.

9 Touch “OK”.

10 Reenter the password in step 7 to confirm the setting.

11 Touch “OK”.
The password is set.

Enter the password

In password input screen, you must enter the current password. If you enter the incorrect password three times, the navigation system is locked.

1 Enter the password.

2 Touch “OK”.
The password mode is canceled.

Delete the password

The current password can be deleted.

1 With the map displayed, press the MENU button.

2 Touch “Settings” in the NAVI MENU.

3 Touch “System Options”.

4 Touch Area1, followed by Area2, and then touch and hold Area3.
The password setting screen appears.

5 Touch “Clear password”.

6 Enter the current password.

7 Touch “OK”.

8 Touch “Yes”.
The current password is deleted.

If the password is forgotten

Contact the nearest authorized Pioneer Service Station.

Installing the Program

The program is installed to the navigation system using the application disc.

This is not necessary if your dealer already performed the installation.

When installing the program, you carry out the following operations. When all the setup procedures are completed, you can use the navigation system.

1 Insert the disc while the vehicle is parked.

↓

2 Select the language used for the navigation system.

↓

3 Set the time difference.

1 Park your vehicle in a safe place.

Leave the engine on, and make sure that the parking brake is applied.

2 Insert the Pioneer DVD Map Disc into the disc loading slot of the navigation system.

When the upgraded program has been found, installation of the program starts immediately.

- ❒ Do not insert anything other than a disc into the disc loading slot.
- ❒ If you cannot insert a disc completely or if an inserted disc is not recognized, check that the label side of the disc is up. Press the **EJECT** button to eject the disc, and check the disc for damage before inserting the disc again.

⚠ CAUTION

- **Once the installation of the program starts, do not stop the engine of your vehicle nor switch off the navigation system until the installation is completed and the following Map screen with current position appears.**

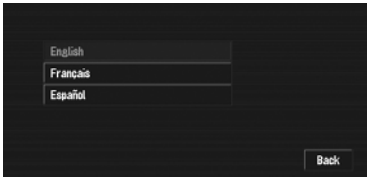
3 Touch "Yes/Oui".

When you start the navigation system for the first time, you will see a confirmation message asking if you wish to select another language. English is the default language of the navigation system. If desired, you can select another language as shown.

- ❒ To keep English, touch "**No/Non**". After this, proceed to Step 7.
- ❒ When you want to select another language, touch "**Yes/Oui**", and proceed to the next step.

4 Select the language from the list.

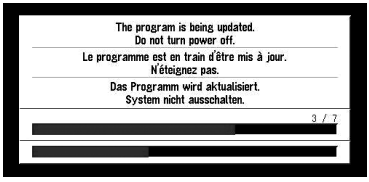
Touch the language you want to use.



- ❒ The language selected here is reflected for the navigation functions (e.g., Destination search, etc.) only.

➲ To change the language → Page 74

Installation of the program begins in the language that you chose.


The program is being updated.
Do not turn power off.
Le programme est en train d'être mis à jour.
N'éteignez pas.
Das Programm wird aktualisiert.
System nicht ausschalten.
3 / 7

When the installation is complete, the opening display appears.

↓

Pioneer
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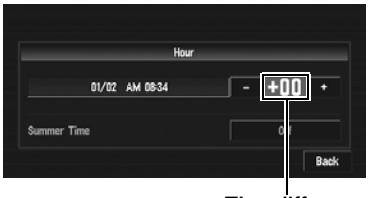
Data by infoUSA Copyright ©2006 All Rights Reserved.

Some time is needed until navigation is ready.

5 Check the details of the caution message and touch "OK".

6 To set the time difference, touch "+" or "–".



Time difference

The time difference between the time originally set in the navigation system (Pacific Standard Time) and the current location of your vehicle is shown. If necessary, adjust the time difference. Touching "**+**" or "**–**" changes the time difference display in one-hour increments. The time difference can be set from +3 to –3 hours.

7 If necessary, set to summer time.

Daylight Saving Time (DST) is off by default. Touch "**Off**" to change the time if you are in the daylight saving period. This turns the display below summer time "**On**".

8 To complete the setting, touch "Back".

The map of your surroundings appears.

This completes the setup of your navigation system. Chapter 1 explains the basic operation of your navigation system.

➲ To change the time later ➞ Page 76

Adjusting the Response Positions of the Touch Panels (Touch Panel Calibration)

If you feel that the touch keys on the screen deviate from the actual positions that respond to your touch, adjust the response positions of the touch panel. There are two adjustment methods: 4-point adjustment, in which you touch four corners of the screen, and 16-point adjustment, in which you make fine-adjustments on the entire screen.

❒ Make sure to use the supplied stylus for adjustment and gently touch the screen. If you press the touch panel forcefully, the touch panel may be damaged. Do not use a sharp pointed tool such as a ballpoint pen or a mechanical pen. Otherwise the screen is damaged.

Stylus (supplied with navigation system)

1 Press the VOLUME knob (or AV button) to switch to the AV operation screen.

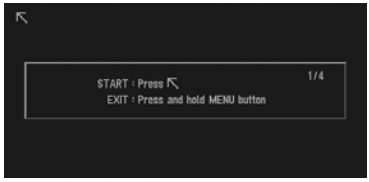
2 Press the MENU button to change to the AV Source screen.

3 Press and hold the MENU button for two seconds or more.

The 4-point touch panel adjustment screen appears.

4 Touch and hold the arrows that point to the corners of the LCD screen with the stylus.

The red arrow indicates the order.



5 Press the MENU button.
The adjusted position data is saved.
- ❒ Do not turn off the engine while saving the adjusted position data.
- ❒ Press the **MENU** button to complete the 4-point adjustment.
- ❒ To cancel the adjustment, press and hold the **MENU** button.

6 Press the MENU button.
The 16-point touch panel adjustment screen appears.

7 Gently touch the center of the + mark displayed on the screen with the touch panel adjustment pen.
After you touch all marks, the adjusted position data is saved.
- ❒ Do not turn off the engine while saving the adjusted position data.
- ❒ Press the **MENU** button to return to the previous adjustment position.

8 Press and hold the MENU button.
The adjustment is complete.
- ❒ If touch panel adjustment cannot be performed properly, consult your local Pioneer dealer.

Memory Navi Mode

While the DVD Map Disc is inserted, you can store the data on the DVD Map Disc into the memory of the navigation system. If the DVD Map Disc is removed from the navigation system after the data is stored, navigation is performed using the data in the memory (memory navi mode). In the memory navi mode, you can play a music CD or DVD-Video on the navigation system while navigation is taking place.
The operation is automatically switched to the memory navi mode when the DVD Map Disc is removed from the navigation system.

Navigation in the memory navi mode

During the memory navi mode, navigation is performed only using the data read into the memory. Therefore, some functions are restricted compared with navigation using the DVD Map Disc (DVD navi mode). These function buttons, which cannot be used in the memory navi mode, are indicated in light gray. (If you want to use these functions, please insert the DVD Map Disc again.) In addition, you may need to insert the DVD Map Disc and store new data in the memory during navigation operation, such as when the destination is far away.
The memory navi mode uses the following map data to perform navigation.
The following are collectively known as Memory Data:
- Manually downloaded memory area data in "**Map in Memory**" of the Settings menu (Manual downloaded Memory Area)
- Automatically downloaded memory data of the surrounding areas during the route search (Auto downloaded Memory Area)

➲ Setting of the memory area ➞ Page 76

What is the manual downloaded memory area?

Memory area is the area of the map data that the user voluntarily read into the memory for the memory navi mode. Normal guidance is available if the memory area is stored and you drive within the stored area.

What is the auto downloaded memory area?

This is the zone around the route in the map area that is automatically stored in the memory when the route is set. When the route distance is 74.5 miles (120 km) or shorter, a zone with a width of approximately 10.9 miles (17.5 km) around the route is stored.

When the route distance is longer than 74.5 miles (120 km), a zone with a width of approximately 6.6 miles (10.6 km) around the route is recorded. This data is transmitted to the memory as you set the route. When a new route is entered, the memorized data is deleted.

The memorized area may be deleted in the following circumstances:

- Yellow lead of the navigation system or the vehicle battery is disconnected.
- The **RESET** button is pressed.
- Navigation software is updated.
- System language is changed.

Navigation operation during the memory navi mode

✓ :Operation possible
△ :Operation restricted
– :Operation not possible

NAVI MENU	
Destination menu	
Address Search	–
Return Home	–
Go to	–
POI Search	–
Vicinity Search	–
Address Book	–
Destination History	–
Freeway Search	–
Telephone Search	–
Cancel Route	✓
Info/Traffic menu	
Traffic On Route	–
Traffic Events	–
Traffic Flow	–
Traffic Settings	✓
XM Status	✓
Stock Info	✓
Set My Favorites	✓
My Favorites	✓
Emergency Info	✓
Overlay POI	–

NAVI MENU	
Route Options menu	
Edit Current Route	–
View Current Route	△
Recalculate	–
Number of Routes	✓
Route Condition	✓
Avoid Freeway	✓
Avoid Ferry	✓
Avoid Toll Road	✓
Designate Areas to Avoid	–
Settings menu	
Volume	✓
System Options	△
Short-Cut Selection	✓
Map Display Options	✓
Defined Locations	–
Demo Mode	–
Time	✓
Modify Current Location	✓
Hardware Info	△*
Restore Factory Settings	✓

Shortcut menu	
: Destination	–
: Change Route	△
: Registration	✓
: Vicinity Search	–
: Volume Setting	–
: Whole Route Overview	✓
: Overlay POI	–
: Address Book	–
: Route Options	△
: Edit Current Route	–
: Traffic On Route	–
: Stock Info	✓
: Set My Favorites	✓
: My Favorites	✓

*: Product Number in the **Service Info Screen** is not displayed.

About the icon for the memory navi mode

When new route guidance starts, the route data from the DVD Map Disc is read into the memory of the navigation system. The status of the memory navi mode is indicated by the following icons on the lower right of the map screen.

(Green flashes): Reading the data

(Green is lit): Operated in memory navi mode
(Red flashes): Operated in memory navi mode, but the remaining distance for guidance is less than 12.5 miles.

❒ Where the navigation guidance is impossible, the icon is lit in red. In that case, reinsert the DVD Map Disc.

When disappears, memory navi mode is ready. You can now remove the DVD Map Disc.

❒ If you want to remove the DVD Map Disc while preparing for the memory navi mode, press the **EJECT** button more than 2 seconds. When the DVD Map Disc is removed, data cannot be read any more and preparation for memory navi mode will be canceled accordingly. (Since the reading of the map data used in the memory navi mode is not complete, the map scale may switch to a larger scale. In this case, route guidance will continue up to the location already memorized.)

In memory navi mode, you will be notified in three cases: when the distance to the edge of the memorized area is 12 miles (20 km), 6 miles (10 km) and 3 miles (5 km) respectively.
Preparation for memory navi mode will have to be repeated if the vehicle enters an unrecorded area, then returns to an area stored in the disc. (Preparation for the memory navi mode starts from the location where the vehicle re-entered the area stored on the disc.)

Major restrictions during the memory navi mode

- If a route was set to your destination in memory navi mode, inserting the DVD Map Disc automatically starts recalculation of another route. (You cannot cancel this reroute operation. If the route calculation fails for some reason, a message will appear asking you to either recalculate a route (Reroute) or delete the current route (Delete route). In this case, drive for a while before touching either “Reroute” or “Delete route” to delete the current route, then reset the destination.)
- In some cases, you may not be able to use map display mode during DVD navi mode. If the map display mode is not changed during memory navi mode, the display will return to the map display mode used during the DVD navi mode when the DVD Map Disc is set again.
- In memory navi mode, map scale data that cannot be read in the memory cannot be displayed. Accordingly, the edge of the map will appear cut off along the point it was not read into memory. This simply indicates the edge of the map data, and is not a malfunction.

- If you keep driving or scrolling the map to a point where the map can no longer be displayed, the scale automatically switches to a range possible to display. If you would like to continue driving or scrolling the map at the same scale, set the DVD Map Disc in the navigation system.
- You cannot reroute to avoid traffic congestion or closure.
- If you continue to drive outside the route for a while, you may not be able to perform map matching.
- If you deviate from the route during memory navi mode, set route will be rerouted, but only to return you to the original route calculated within the memorized area.
- Although an enlarged map of the intersection will be displayed, no special freeway illustration (illustration of freeway intersections) will be displayed.
- If the XM tuner (GEX-P10XMT, GEX-P920XM), which is sold separately, is connected, the logo data is not displayed during memory navi mode.

Cautions relating to auto reroute in memory navi mode

Auto rerouting in memory navi mode is designed to return you to your original route wherever possible.
In memory navi mode, persistently deviating from the route may result in one of the following:

- A clearly circuitous route
- Leaving a toll road and returning to the toll road from where you left it.

In the above case, if the set route seems unsuitable, insert the DVD Map Disc that records your

current position. Setting the DVD Map Disc to navigation automatically resets the route from your current location to your destination.

TRAFFIC icon during the memory navi mode

- XM NavTraffic-related data for a "Zone" (e.g., Zone 1 contain ID, OR, WA) only can be memorized. Therefore, if appears on the screen when crossing a zone border, you will need to insert the disc to use the XM NavTraffic function. Touching

allows you to check the locations of the traffic information along the route. However, you cannot perform rerouting.

Operation outside the memorized area

When the vehicle leaves the memorized area, the functions will be limited.

- The auto reroute function does not work.
- You can only display a larger scale map. The map display will automatically change to a 25 mi (or 50 mi) scale.
- The map matching function will not be available. Therefore, the position of your vehicle may be misaligned.
- The navigation guidance will only be available when arriving at your destination. Other guidance is not possible (this includes no display of direction arrows).

To cancel these limitations, insert the DVD Map Disc to the navigation system.

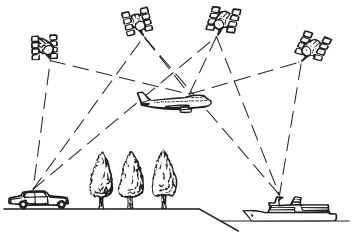
Positioning Technology

The navigation system accurately measures your current location by combining the positioning by GPS and by Dead Reckoning.

Positioning by GPS

The Global Positioning System (GPS) uses a network of satellites orbiting the Earth. Each of the satellites, which orbit at a height of 68 900 000 feet (21 000 km), continually broadcasts radio signals giving time and position information. This ensures that signals from at least three can be picked up from any open area on the ground's surface.

The accuracy of the GPS information depends on how good the reception is. When the signals are strong and reception is good, GPS can determine latitude, longitude and altitude for accurate positioning in three dimensions. But if signal quality is poor, only two dimensions, latitude and longitude, can be obtained and positioning errors are somewhat greater.



Positioning by dead reckoning

The 3D Hybrid Sensor in the navigation system also calculates your position. The current location is measured by detecting driving distance with the speed pulse, the turning direction with the Gyrosensor and inclination of the road with the G sensor.

The 3D Hybrid Sensor can even calculate changes of altitude, and corrects for discrepancies in the distance traveled caused by driving along winding roads or up slopes. Also, the navigation system learns the driving conditions and stores information in the memory. Thus, as you drive more, the precision of the positioning becomes more accurate.

The method of positioning changes as follows depending on whether the speed pulse of your vehicle is detected or not:

3D hybrid mode
This is active when the speed pulse is detected. Inclination of a street can be detected.

Simple hybrid mode
When the speed pulse is not detected, positioning is performed in this mode. Only horizontal movement is detected, so it becomes less accurate. Also, when the positioning by GPS is not available, such as when your vehicle enters a long tunnel, the discrepancy between your actual and calculated position may become bigger.

❒ The speed pulse data comes from the speed sensing circuit. The location of this speed sensing circuit depends on your vehicle model. In some cases, it is impossible to make a connection to it, and in such a case we recommend that the ND-PG1 speed pulse generator (sold separately) be used.

How do GPS and dead reckoning work together?

For maximum accuracy, your navigation system continually compares GPS data with your estimated position as calculated from the data of 3D Hybrid Sensor. However, if only the data from the 3D Hybrid Sensor is available for a long period, positioning errors are gradually compounded until the estimated position becomes unreliable. For this reason, whenever GPS signals are available, they are matched with the data of the 3D Hybrid Sensor and used to correct it for improved accuracy.

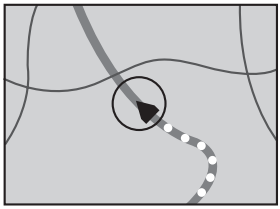
To ensure maximum accuracy, the dead reckoning system learns with experience. By comparing the position it estimates with your actual position as obtained using GPS, it can correct for various types of error, such as tire wear and the rolling motion of your vehicle. As you drive, the dead reckoning system gradually gathers more data, learns more, and the accuracy of its estimates gradually increases. So, after you have driven some distance, you can expect your position as shown on the map to show fewer errors.

❒ If you use chains on your wheels for winter driving or put on the spare wheel, errors may suddenly increase because of difference in wheel diameter. The system detects the fact that the tire diameter has changed, and automatically replaces the value for calculating distance.

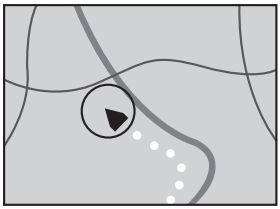
❒ If the ND-PG1 is used or if your vehicle is operating in Simple hybrid mode, the distance calculation value cannot be replaced automatically.

Map matching

As mentioned, the GPS and dead reckoning systems used by this navigation system are susceptible to certain errors. Their calculations may, on occasion, place you in a location on the map where no road exists. In this situation, the processing system understands that vehicles travel only on roads, and can correct your position by adjusting it to a nearby road. This is called map matching.



With map matching



Without map matching

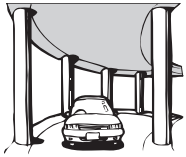
Handling Large Errors

Positioning errors are kept to a minimum by combining GPS, Dead Reckoning and map matching. However, in some situations, these functions may not work properly, and the error may become bigger.

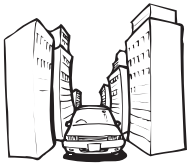
When the positioning by GPS is impossible

- If signals cannot be received from more than two GPS satellites, GPS positioning does not take place.
- In some driving conditions, signals from GPS satellites may not reach your vehicle. In this case, it is impossible for the system to use GPS positioning.

In tunnels or enclosed parking garages



Under elevated roads or similar structures



When driving among high buildings

When driving through a dense forest or tall trees

- If a car phone or cellular phone is used near the GPS antenna, GPS reception may be lost temporarily.
- Do not cover the GPS antenna with spray paint or car wax, because this may block the reception of GPS signals. Snow buildup can also degrade the signals, so keep the antenna clear.

❒ If, for any reason, GPS signals cannot be received, learning and error correction are not possible. If GPS positioning has been operating for only a short time, your vehicle's actual position and the current location mark on the map may diverge considerably. Once GPS reception is restored, accuracy will be recovered.

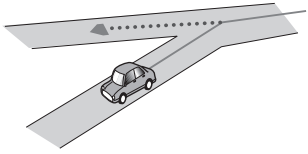
Vehicles that Cannot Obtain Speed Pulse Data

❒ The speed pulse data comes from the speed sensing circuit. The location of this speed sensing circuit depends on your vehicle model. In some cases, it is impossible to make a connection to it, and in such a case we recommend that the ND-PG1 speed pulse generator (sold separately) be used.

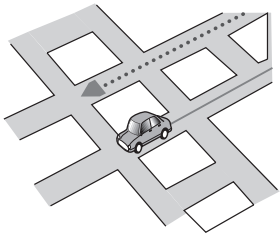
Conditions Likely to Cause Noticeable Positioning Errors

For various reasons such as the state of the road you are traveling on and the state of reception of the GPS signal, the actual position of your vehicle may differ from the position displayed on the map screen.

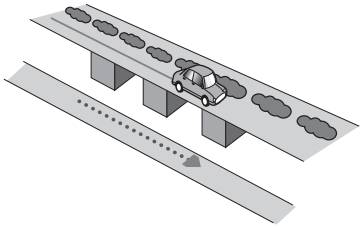
- If you make a shallow turn.



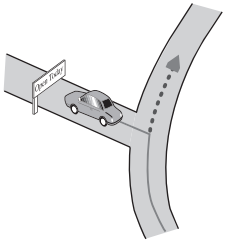
- If there is a parallel road.



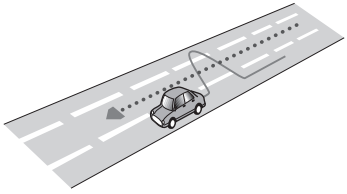
- If there is another road very nearby, such as in the case of an elevated freeway.



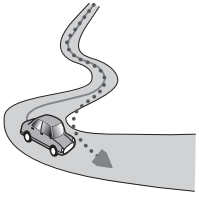
- If you take a recently opened road that is not on the map.



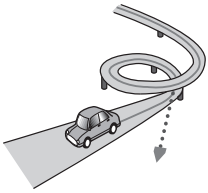
- If you drive in zig-zags.



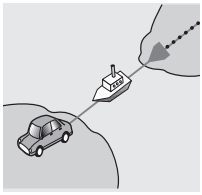
- If the road has connected hairpin bends.



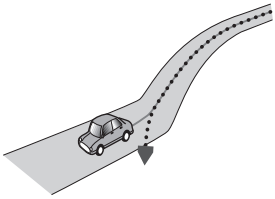
- If there is a loop or similar road configuration.



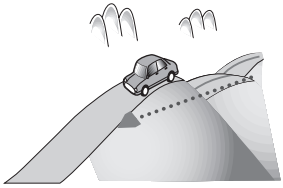
- If you take a ferry.



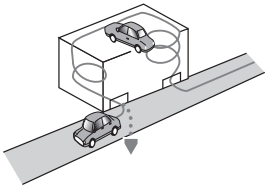
- If you are driving on a long, straight road or a gently curving road.



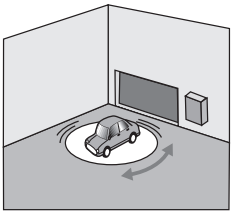
- If you are on a steep mountain road with many height changes.



- If you enter or exit a multi-storey parking lot or similar structure using a spiral ramp.

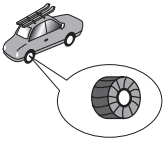


- If your vehicle is turned on a turntable or similar structure.

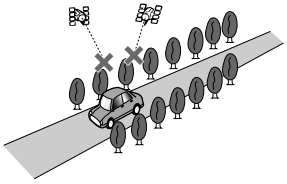


- If your vehicle's wheels spin, such as on a gravel road or in snow.

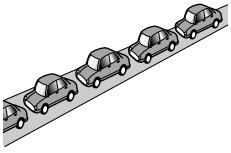
- If you put on chains, or change your tires for ones with a different size.



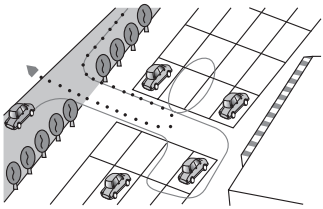
- If trees or other obstacles block the GPS signals for a considerable period.



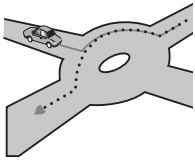
- If you drive very slowly, or in a start-and-stop manner, as in a traffic congestion.



- If you join the road after driving around a large parking lot.



- When you pass around a traffic circle.



- When starting driving immediately after starting the engine.
- If you insert the disc and turn your navigation system on while driving.

Some types of vehicles may not output a speed signal while driving at just a few kilometers per hour. In such a case, the current location of your vehicle may not be displayed correctly while in a traffic congestion or in a parking lot.

About the Data being Deleted

The information is erased by pushing the **RESET** button or disconnect yellow lead from battery (or remove the battery itself), except for the following items.

- Sensor learning status and driving status
- Memory area memorized manually
- Area to avoid
- Registered Locations in "**Address Book**"
- Data registered in "**Emergency Info**"

Limitation of Functions for Areas not Stored on the Disc

For areas not stored on the disc, the functions will operate as follows:

Displaying the map

- Maps with a scale of between 0.02 mile and 0.25 mile cannot be displayed. (If the scale was set to between 0.02 mile and 0.25 mile, it is automatically switched to 0.5 mile.)
- When driving with **Guide View**, **Route View** or **Driver's View**, upon entering an area not stored on the disc the display automatically switches to **Map View**. (When the vehicle reenters an area stored on the disc, the display returns to the previous map mode except for **Driver's View**.)

Destination search

- You cannot search a destination in an area not stored on the disc using **Address Search** or **Telephone Search**.
- In case of **POI Search** and **Vicinity Search**, only "**City Center**" search is possible.
- If you cannot search in a currently selected zone, the system may forcibly switch to the zone selection screen.
- A **Freeway Search** covers all areas, regardless of the disc on which the information is stored.
- If a **Vicinity Search** is performed on the border of an area not stored on the disc, the system will not necessarily select the nearest facility. (The search will take place only within the range of areas stored on the disc.)

Guidance

- When your vehicle approaches an area not stored on the disc, you will be notified three times: when the distance to the area not stored on the disc is 12 miles (20 km), 6 miles (10 km) and 3 miles (5 km) respectively. When your vehicle enters that area, a caution is given.
- In the areas not stored on the disc, only guidance for reaching the destination is provided. No other guidance is given.
- If a route calculation is operated within an areas not stored on the disc, the route might not be set from the streets you are currently driving. Also, if you set the destination in an area not stored on the disc of the disc, the system may not be able to set the route up to the destination.
- If the vehicle deviates from the set route in an area not stored on the disc, the Auto Reroute function will not work.
- Even if "**Close-up of Junction**" is "**On**", the display will not switch to an enlarged map of the junction.
- Even if you drive on the freeway, lane information, freeway exit numbers and freeway signs will not be displayed.

Route information

- If the set route goes through an area not stored on the disc, no route profile for that area will be displayed. (If the set route traverses both an area not stored on the disc and area stored on the disc, only the route profile within the area stored on the disc will be displayed.)
- Route scrolling for an area not stored on the disc is possible only with a map scale of 0.5 mi or above.

Other function limitations

Overlay POI

- Only display "**City Center**" is available in an area not stored on the disc.

Memory mode

- Only data for areas stored on the disc can be memorized. (Data for areas not stored on the disc cannot be memorized.)
- If the vehicle enters an area not stored on the disc, preparation for memory navi mode will have to be redone after the vehicle returns to an area stored in the disc. (Preparation for the memory navi mode starts from the location where the vehicle re-entered the area stored on the disc.)

Avoid area

- An area not stored on the disc cannot be set as an **Areas to Avoid**.

❒ A set **Areas to Avoid** may be deleted when the software is updated. If this happens, the system will automatically try to recover the deleted information, but data can be recovered only for areas stored on the disc. For items that could not be recovered, a recovery process will begin when you set another disc.

Troubleshooting

If you have problems operating your navigation system, refer to this section. The most common problems are listed below, along with likely causes and solutions. While this list is not comprehensive, it should answer your most common problems. If a solution to your problem cannot be found here, contact your dealer or the nearest authorized Pioneer service facility.

Problems in the navigation screen

Symptom	Cause	Action (See)
Power doesn't turn on. The unit doesn't operate.	Leads and connectors are incorrectly connected.	Confirm once more that all connections are correct.
	The fuse is blown.	Rectify the reason for the fuse blowing, then replace the fuse. Be very sure to install a correct fuse with the same rate.
	Noise and other factors are causing the built-in microprocessor to operate incorrectly.	Press the **RESET** button. (→ Refer to page 20 in this manual.)
The power turns on, but the unit does not operate.	The 30-pin cable has been disconnected and then reconnected.	Press the **RESET** button while the power is on.
When the ignition switch is turned ON (or turned to ACC), the motor sounds.	The navigation system confirms whether a disc is loaded or not.	This is a normal operation.
You cannot position your vehicle on the map or the positioning error is large.	The quality of signals from the GPS satellites is poor, causing reduced positioning accuracy. Such a loss of signal quality may happen for the following reasons: • The GPS antenna is in an unsuitable location. • Obstacles are blocking signals from the satellites. • The position of satellites relative to your vehicle is bad. • Signals from the GPS satellites have been modified to reduce accuracy. (GPS satellites are operated by the US Department of Defense, and the US government reserves the right to distort positioning data for military reasons. This may lead to greater positioning errors.) • If a vehicle phone or cellular phone is used near the GPS antenna, GPS reception may be lost temporarily.	Check the GPS signal reception (→ Page 70) and the position of the GPS antenna if necessary, or continue driving until reception improves. Keep the antenna clear.
	Something covers the GPS antenna.	Do not cover the GPS antenna with spray paint or vehicle wax, because this may block the reception of GPS signals. Snow buildup can also degrade the signals.
	Signals from the vehicle's speed pulse are not being picked up properly.	Check that the cables are properly connected. If necessary, consult the dealer that installed the system.
	The navigation system may not be mounted securely in your vehicle.	Check that the navigation system is securely mounted and, if necessary, consult the dealer that installed the system.

Symptom	Cause	Action (See)
	Your vehicle is operating in Simple hybrid mode.	Connect the speed signal input (pink lead wire) of the power cable correctly, and reset the 3D Hybrid Sensor memory ("**Learning Status**").
	The navigation system is installed with an extreme angle exceeding the limitation of the installation angle.	Confirm the installation angle. (The navigation system must be installed within the allowed installation angle. For details, refer to "Installation Manual".)
	Indication of the position of your vehicle is misaligned after a U-turn or reversing.	Check whether or not the reverse gear signal input lead (Violet) is connected properly. (The navigation system works properly without the lead connected, but positioning accuracy will be adversely affected.)
The map continually reorients itself.	The traveling direction is set to Heading Up.	Touch on the screen and change the map display.
Tracking marks are not displayed.	The "**Tracking Display**" is turned off.	Check the "**Tracking Display**" settings (→ Page 75) and make sure "**Always**" or "**This Trip**" is selected.
The daylight display is used even when the vehicle lights are on.	"**Daytime**" is set to "**Day/Night Display**".	Check the "**Day/Night Display**" setting (→ Page 75) and make sure "**Nighttime**" is selected.
	The orange/white lead is not connected.	Check the connection.
The system will not switch on or will not operate.	Installation or connection has been carried out incorrectly.	Check with your dealer.
The display is very dim.	The vehicle's light is turned ON, and "**Nighttime**" is selected on "**Day/Night Display**".	Read about the "**Day/Night Display**" setting (→ Page 75) and, if desired, select "**Daytime**".
	The vehicle cabin temperature is extremely low.	A Liquid Crystal Display (LCD) is used, and such displays tend to darken when cold. Wait for the vehicle to warm up.
	Picture quality adjustment of the display is not correct.	Refer to "Operating the Picture Adjustment" to adjust the picture quality.
No sounds are heard. The volume level will not rise.	The volume level is low.	Adjust the volume level.
	The attenuator or mute is on.	Turn the attenuator or mute off.
	The speaker lead is disconnected.	Check the connection.
Adjusting the volume of navigation guidance and beeps is not possible.	You cannot adjust them with the **VOLUME** knob.	Turn the volume up or down according to "**Volume**" (→ Page 73) in the "**Settings**" menu.
A strange sound is heard when the vehicle comes close to a certain place. (E.g. Dog barking)	The sound for the entry of "**Address Book**" is set.	Set the sound setting of that entry to "**No Sound**". (→ Page 57)
Slope is not displayed on the **Vehicle Dynamics** screen. **Inclination** does not move on the **3D Calibration** screen.	The speed pulse lead is not connected.	Connect the speed pulse lead.
The person on the other end of the phone call cannot hear the conversation due to an echo.	The voice from the person on the other end of the phone call is output from the speakers and then picked up by the microphone again, creating an echo.	Use the following methods to reduce the echo. — Lower the volume on the receiver — Have both speakers pause slightly before speaking

When the screen is frozen...
Park your vehicle in a safe place, and cut off the engine. Turn the ignition key back to "Acc off". Then start the engine again, and turn the power to the navigation system back on. If this does not solve the problem, press the **RESET** button on the navigation system.

Symptom	Cause	Action (See)
Playback is not possible.	The disc is dirty.	Clean disc.
	The loaded disc is a type your navigation system cannot play.	Check what type the disc is.
	A non-compatible video system disc is loaded.	Change to a disc compatible to your video system.
There's no picture.	The parking brake cord is not connected.	Connect the parking brake cord, and apply the parking brake.
	The parking brake is not applied.	Connect the parking brake cord, and apply the parking brake.
The audio and video skip.	The navigation system is not firmly secured.	Secure the navigation system firmly.
Rear display picture disappears.	The source disc being listened to in the navigation system has been ejected.	Before ejecting the disc, switch the source. This problem may occur when certain connection methods are used.
	There was a problem with the rear display or a faulty wiring connection.	Check the rear display and its connection.
	The source without a video is selected.	Switch the source with a video.

Problems in the AV screen (during DVD-Video playback)

Symptom	Cause	Action (See)
CD or DVD playback is not possible.	The disc is inserted upside down.	Insert the disc with the label upward.
	The disc is dirty.	Clean disc.
	The disc is cracked or otherwise damaged.	Insert a normal, round disc.
	The files on the "CD (DVD)" are an irregular file format.	Check the file format.
	The "CD (DVD)" format cannot be played back.	Replace disc.
	The loaded disc is a type this system cannot play.	Check what type the disc is. (Also see "Handling and Care of the Disc" for more cautions about handling each type of media.)
No picture.	The parking brake lead is not connected or applied.	Connect a parking brake lead correctly, and apply the parking brake.
	Parking brake interlock is activated.	Park your vehicle in a safe place and apply the parking brake. ➲ "Parking brake interlock" ➞ Page 13
	The "**AV1 Input**" or "**AV2 Input**" setting is incorrect.	Please read the following page and set the setting correctly. ➞ Page 131
The audio skips.	The navigation system is not firmly secured.	Secure the navigation system firmly.
"Rear display" picture disappears.	There was a problem with the "Rear display" or a faulty wiring connection, for example.	Check the "Rear display" and its connection.

Symptom	Cause	Action (See)
	"**DVD/DivX Setup**" is carried out	You can not display the video image to "Rear display" during "**DVD/DivX Setup**" menu.
Nothing is displayed and the touch panel keys cannot be used.	The setting for the rear view camera is incorrect.	Connect a rear view camera correctly.
	The shift lever was placed in [R] when the rear view camera was not connected.	Press the **MAP** button to return to the map screen first and display **AV MENU** and then switch **Camera** to "**Off**" in the **System** menu. ➲ About "**Camera**" setting ➞ Page 131
	The back light of the LCD panel is turned off.	Turn on the back light. ➞ Page 133
Touch panel key is not responding or a different key is responding.	Touch keys deviate from the actual positions that respond to your touch for some reason.	Perform the touch panel calibration. "Adjusting the Response Positions of the Touch Panels (Touch Panel Calibration)" ➞ Page 137
"NO SIGNAL" is displayed at the right corner on the map.	While waiting for a response from the XM tuner.	Wait for a while and try the operation again.
	You are in an area that cannot receive XM tuner reception.	Move into an area that can receive XM tuner reception.
	Your current location provides very poor reception.	Change your location.
"UPDATING" is displayed at the right corner on the map.	Service subscription is either XM audio only or XM NavTraffic stand alone.	Since the GEX-P10XMT is capable of receiving both XM audio and XM NavTraffic service, if you are subscribed to only one or the other, the system checks to see if you have added another service to your account since you last powered on the navigation system. When you subscribe to both services, this message will stop appearing when you turn the ignition ON (ACC ON).
No sounds are heard. The volume level will not rise.	Cables are not connected correctly.	Connect the cables correctly.
	The system is performing still, slow motion, or frame-by-frame playback with DVD-Video.	There is no sound during still, slow motion, or frame-by-frame playback with DVD-Video.
	The system is paused or performing fast rewind or forward during the MP3/WMA/ACC disc playback.	For a MP3/WMA/ACC, there is no sound on fast rewind or forward.
The icon ⃠ is displayed, and operation is not possible.	The operation is not compatible with the DVD's configuration.	This operation is not possible. (For example, the DVD playing does not feature that angle, audio system, subtitle language, etc.)
The picture stops (pauses) and the unit cannot be operated.	Reading of data has become impossible during DVD playback.	After touching ■ once, start playback once more.
The picture is stretched, the aspect is incorrect.	The aspect setting is incorrect for the display.	Select the appropriate setting for that image. ➲ "Changing the Wide Screen Mode" ➞ Page 132 ➲ "Setting the aspect ratio" ➞ Page 127
A parental lock message is displayed and DVD playback is not possible.	Parental lock is on.	Turn parental lock off or change the level (➞ Page 127).
Parental lock for DVD playback cannot be canceled.	The code number is incorrect.	Input the correct code number. (➞ Page 127).

Symptom	Cause	Action (See)
Playback is not with the audio language and subtitle language settings selected in "**DVD/DivX Setup**".	The DVD playing does not feature dialog or subtitles in the language selected in "**DVD/DivX Setup**".	Switching to a selected language is not possible if the language selected in "**DVD/DivX Setup**" is not recorded on the disc.
Switching the viewing angle is not possible.	The DVD playing does not feature scenes shot from multiple angles.	You cannot switch between multiple angles if the DVD does not feature scenes recorded from multiple angles.
	You are trying to switch to multiple angle viewing of a scene that is not recorded from multiple angles.	Switch between multiple angles when watching scenes recorded from multiple angles.
The picture is extremely unclear/distorted and dark during playback.	The disc features a signal to prohibit copying. (Some discs may have this.)	Since the navigation system is compatible with the copy guard analog copy protect system, when playing a disc that has a signal prohibiting copying, the picture may suffer from horizontal stripes or other imperfections when viewed on some displays. This does not mean the navigation system is malfunctioning.

Problems in the AV screen (during iPod playback)

Symptom	Cause	Action (See)
Cannot be operated.	The iPod is frozen.	• Reconnect the iPod with the interface cable for iPod® (sold separately). • Update the iPod version.
	The authorization error has occurred.	• Reconnect the iPod with the interface cable for iPod® (sold separately). • Set the ACC to Off and set it to On again. • Update the iPod version.

Messages and how to react to them

The following messages may be displayed by your navigation system.

❒ There are occasions when you may see error messages other than those shown here. In such a case, follow the instructions given on the display.

Message	When	What to do
Please insert the appropriate disc. This is not the appropriate disc. Please insert the appropriate disc.	If you try to use a disc which is incompatible with this system.	Insert a suitable disc.
	If you insert a disc upside down.	Insert the disc with the label upward.
	If the disc is dirty.	Clean the disc.
	If the disc is cracked or otherwise damaged.	Insert a normal, round disc.
Irregular speed pulse signal is detected. Please power off the system and check the installation. After you have checked, please re-boot the system and press "OK".	If the navigation system does not receive the vehicle speed pulse.	Consult your Pioneer dealer.

Message	When	What to do
Speed pulse wire is not connected. System will start to learn without speed pulse. Please keep in mind that accuracy is not fully ensured without speed pulse.	The speed signal input (pink lead wire) of the power cable is not connected.	To operate with 3D hybrid mode, connect the speed signal input (pink lead wire) of the power cable correctly. Although it can be operated with Simple hybrid mode without connecting the speed signal input, the precision of the positioning will be less accurate.
Vibration is detected. Please power off the system and check the installation. After you have checked, please re-boot the system and press “OK”.	The navigation unit is installed in a place where it may be affected by a large vibration.	Re-install the navigation unit in a place where the unit will not be affected by vibration.
Direction of G sensor is not correct. Please power off the system and check the installation. After you have checked, please re-boot the system and press “OK”.	Direction of G sensor is set incorrectly.	See the “Installation Manual" and set the direction of the navigation unit correctly.
Gyro Sensor is not working properly. Please consult your dealer or Pioneer service center.	Abnormal output is detected from the Gyrosensor.	Note down the error code shown on the screen. Turn off the power, and then contact your nearest Pioneer service facility.
This function is not available now.	The screen cannot be displayed with **Vehicle Dynamics** Display. Because the sensor has not been taught so the sensor information cannot be acquired.	If the sensor learning status reaches the Sensor Initializing status, the system is ready to be used.
System detected that the vertical angle of the installation has been changed. Learning status for Gyro Sensor has been initialized.	If the mounting angle of the navigation unit has been changed.	The system initializes the sensor in order to operate it with the maximum performance and automatically starts re-learning.
System detected that the vertical angle of the installation exceeds the permission level. Please install the navigation unit correctly.	The navigation system is installed with an extreme angle exceeding the limitation of the installation angle.	Confirm the installation angle. (The navigation system must be installed within the allowed installation angle. For details refer to Installation Manual.)
No data available at this time.	If no data is available that can be used with the XM tuner.	Wait for a while and try the operation again.
No XM signal. Please wait.	While waiting for a response from the XM tuner.	Wait for a while and try the operation again.
	You are in an area that cannot receive XM tuner reception.	Move into an area that can receive XM tuner reception.
	Your current location provides very poor reception.	Change your location.
XM updating. Please wait.	Service subscription is either XM audio only or XM NavTraffic stand alone.	Since the GEX-P10XMT is capable of receiving both XM audio and XM NavTraffic service, if you are subscribed to only one or the other, the system checks to see if you have added another service to your account since you last powered on the navigation system. When you subscribe to both services, this message will stop appearing when you turn the ignition ON (ACC ON).
	Radio is being updated with the latest encryption code.	Wait until the encryption code is fully updated.
UPDATING	The selected channel is not included in your subscription.	Select another channel.
	Radio is being updated with the latest encryption code.	Wait until the encryption code is fully updated.

Message	When	What to do
Route calculation was not possible.	Route calculation has failed because of a malfunction of map data, software, hardware or disc.	• Change the destination. • Clean the disc. • Consult the Pioneer Local dealer if this message persists.
Route calculation was not possible because the destination is too far.	The destination is too far.	• Set a destination closer to the starting point. • Set one or more way points.
Route calculation was not possible because the destination is too near.	The destination or way point(s) are too close.	Set a destination or way point(s) farther from the starting point.
Route calculation was not possible due to traffic regulations.	• The destination or way point(s) are in a Control Traffic Zone (CTR) and the route calculation is hampered. • Your vehicle is currently in a Control Traffic Zone (CTR) and the route calculation is hampered.	• Set a destination and way point(s) outside the CTR if you know where the restricted area is. • Try a destination or way point(s) away from the currently set points to some extent. • Drive your vehicle to an unrestricted area and reset the destination and way point(s).
Route calculation was not possible because no guidance can be provided around the destination or the starting point.	The destination, way point(s) or starting point are in an area where no road exists (e.g. a mountain) and the route calculation is impossible.	• Set a destination and way point(s) on roads. • Reset the destination after you drive the vehicle to any road.
There is no route to the destination.	The destination or way point(s) are on an isolated island, etc. without a ferry and the route calculation is impossible.	Change the destination.
The route could not avoid the specified area.	If route setting cannot avoid specified **Areas to Avoid**.	If the current route is not desired, set a destination or way point(s) that do not pass through the **Areas to Avoid**.
The route could not avoid the specified area. Toll road has not been avoided.	If the route to the destination or way point(s) cannot be established by bypassing toll roads (including toll areas) and **Areas to Avoid**.	If the current route is not desired, set a destination or way point(s) that do not pass through toll roads (including toll areas) and **Areas to Avoid**.
Ferry has not been avoided.	In case a ferry route was included in the route to the destination or way point(s) even though "**Avoid Ferry**" was set to **On**.	If the current route is not desired, set a destination or way point(s) that do not pass through a ferry route.
Toll road has not been avoided.	If the route to the destination or way point(s) cannot be established by bypassing toll roads (including toll areas).	If the current route is not desired, set a destination or way point(s) that do not pass through toll roads (including toll areas).
The address does not exist. Do you want to continue?	If the house number is entered without specifying city or street and that house number does not exist on the data.	Re-enter the existing house number by following the instructions shown on the screen. Or, proceed to the next step without entering the house number and specify the city or street first.
There is no applicable data for the selected city. Automatically returning to list.	If the history data of the city could not be used (for example, if the history data of the city that was used in the **POI Search** cannot be found in the **Address Search**.)	Once the search is performed to specify the city, the result is saved as a history. The data of the specified city, however, may not be hit by the different search criteria. In this case, try another search method or change the destination.
There is no Freeway in this area.	If no freeway was found in the selected Zone.	Set the destination or way points using another search method or change the location of the destination or way point(s).

Message	When	What to do
This area does not contain any POI's of the selected type.	**Vicinity Search** cannot be performed because the searched location is in areas not stored on the DVD Map Disc.	Replace the DVD Map Disc and perform the **Vicinity Search** again.
	Facilities of the selected category do not exist in the surrounding areas.	Use another search method or move to another location and perform the **Vicinity Search** again.
Only City Center can be searched.	If **POI Search** was performed on areas not stored on the DVD Map Disc.	Only the City Center can be searched. If you want to search other categories in areas not stored on the disc, replace the DVD Map Disc and perform the **POI Search** again. Set the areas stored on the DVD Map Disc to destination or way points.
This zone is not available on this disc. Please insert appropriate disc.	When areas not stored on the DVD Map Disc are included in the search.	Set the destination or way point(s) in the areas stored on the DVD Map Disc, or replace the DVD Map Disc and perform the search again.
Failed to make the route profile.	Failed to generate the route profile because the set route passes through areas not stored on the DVD Map Disc.	Insert the DVD Map Disc and retry.
The maximum number of registrations has been completed. Please clear existing registered items and re-register current item.	If there are already 300 items when you attempt to register an item in the Address Book.	Delete unnecessary data and try to register again.
Memory is full.	When a total of 300 registered points are in the disc and **Address Book**, you attempt moving an item to the **Address Book** from the disc.	Delete unnecessary data on the system and try to register again or reduce currently selected items.
There is no /PICTURES/ folder. Please create /PICTURES/ folder and store JPEG files in that Folder.	Cannot load the image because the PICTURES folder is not found in the inserted disc.	Use the appropriate data after reading "Changing Background Picture" on page 68.
There is no Disc. Please insert a Disc with JPEG files stored in the /PICTURES/ folder.	The disc in which the background picture is stored is not correctly inserted.	Insert the disc that contains the background pictures.
Data read error. Change is canceled.	Failed to read the data because the disc is damaged or dirty. Or, the pick-up lens of the DVD drive is dirty.	Try re-reading the data by inserting a clean disc. Clean the pick-up lens with a commercially available cleaning kit for DVD, then try to reading again.
JPEG file is corrupt. Change is canceled.	The data is damaged or an attempt was made to set a JPEG image that does not conform to specifications as the background picture.	Use the appropriate data after reading "Changing Background Picture" on page 68.
Data Read error. Back to Original Background. Please do not turn power off.	Failed to read the data because the disc is damaged or dirty. Or, the pick-up lens of the DVD drive is dirty.	Try re-reading the data by inserting a clean disc. Clean the pick-up lens with a commercially available cleaning kit for DVD, then try to reading again.
There are no files available in /PICTURES/ folder.	The PICTURES folder exists on the disc but no data in JPEG format exists.	Use the appropriate data after reading "Changing Background Picture" on page 68.
Please insert the appropriate disc. Route calculation was not possible.	In the memory navi mode, if the Auto-reroute does not function for some reason.	Insert the DVD Map Disc.
No route data can be stored. You should insert the disc that contains the map data of the current position.	The area to be set for "**Map in Memory**" is "areas not stored on the DVD Map Disc".	• Change the memory area to be set to "areas stored on the DVD Map Disc". • Insert the DVD Map Disc containing that area.

Message	When	What to do
• Scaling down. • Scaling up.	In the memory navi mode, if the DVD Map Disc is inserted without changing the scale (only when the point is stored on the DVD Map Disc).	The scale automatically returns to the scale that was set in the DVD navi mode before being changed to the memory navi mode.
• No map data available on this scale. Scaling up. • No map data available on this scale. Scaling down.	When the scale that had been previously displayed cannot be displayed for the following reasons: • The disc was ejected and the system was changed to the memory navi mode. • In the memory navi mode, the map was scrolled to outside the memory area. Or, the vehicle moved outside of the memory area. • The map was scrolled to areas not stored on the DVD Map Disc. Or, the vehicle moved to unrecorded areas. • The map was scrolled from unrecorded areas to the memory area. Or, the vehicle moved from unrecorded areas to the memory area.	If the desired scale cannot be selected, insert the DVD Map Disc that contains that area and then change the scale.
Failure in the memory recovery process. Memory navigation is presently not possible.	Failed to complete the recovery of the memory area because the disc could not be read for some reason, resulting in deletion of the memory.	• Clean the disc. • Clean the DVD drive. • Consult the Pioneer Local dealer if this message persists.
The map data could not be stored. Previous setting will be kept.	Recovery was performed for the memory area after failing to read the disc data for some reason. (The memory area that was previously set will be recovered.)	• Clean the disc. • Clean the DVD drive. • Consult the Pioneer Local dealer if this message persists.
This function is not available with the current map disc.	The current position is “areas not stored on the DVD Map Disc” and an attempt was made to zoom in to make the scale 0.5 mile or more.	Zoom in again after the vehicle moves into an area stored on the DVD Map Disc. Or, replace the DVD Map Disc and try to zoom in again.
Failed to save to memory. Please re-enter setting.	The settings could not be saved for some reason.	• Retry. • Consult the Pioneer Local dealer if this message persists.
CAUTION! System detected improper connection of Parking Brake lead. Please check your configuration for safety. Please see Operation Manual for more information regarding safe operation.	Parking brake lead is incorrectly connected.	Confirm once more that their connections are correct.
Viewing of front seat video source while driving is strictly prohibited.	Parking brake interlock is activated.	Park your vehicle in the safe place and apply the parking brake. ➲ Parking brake interlock ➞ Page 13

Error Messages

When problems occur with disc playback, an error message appears on the display. Refer to the table below to identify the problem, then take the suggested corrective action. If the error persists, contact your dealer or your nearest PIONEER Service Center.
The messages in "( )" will appear on the "Rear display".

Message	Cause	Action (See)
Reading error (ERROR-02-XX)	Dirty	Clean disc.
	Scratched disc	Replace disc.
	The disc is loaded upside down	Check that the disc is loaded correctly.
Mechanism error	Electrical or mechanical	Press the **RESET** button. (Refer to page 20 in this manual.)
Region code error (DIFFERENT REGION DISC)	The disc does not have the same region number as the navigation system	Replace the DVD-Video with one bearing the correct region number.
NON-PLAYABLE DISC	This type of disc cannot be played by the navigation system	Replace the disc with one the navigation system can play.
Thermal error (THERMAL PROTECTION IN MOTION)	The temperature of the navigation system is outside of the normal operating range	Wait until the unit's temperature returns to within normal operating limits.
Error not defined (ERROR-FF-FF)	Undefined error	Press the **RESET** button (Refer to page 20 in this manual.)
Non-playable tracks are skipped. (FILE SKIPPED)	Files that are protected by digital rights management.	The protected files are skipped.
Impossible to play all tracks. (PROCETED DISC,DRM Protected)	All the files on the inserted disc are secured by DRM.	Replace disc.
Flash writing error. Impossible to write on the flash. (CAN NOT SAVE DATA)	The playback history for VOD contents cannot be saved for some reason.	• Try saving again. • If the message appears frequently, consult your dealer.
Authorization Error (AUTHORIZATION ERROR)	The device does not match the device registered with the VOD provider. VOD contents cannot be played back.	Check whether this device has been registered with the VOD provider.
NON-PLAYABLE FILE	VOD rental contents file error	• Try saving again. • If the message appears frequently, consult your dealer.
	Played back a disc with incompatible format.	Playback a disc with compatible format.
ERROR-11	Connected an iPod with no charge.	• Turn "**iPod Charge**" is "**On**" and reconnect the iPod. • Connect a charged iPod.
ERROR-21	The iPod version is not compatible.	Use an iPod with a compatible version.

Handling and Care of the Disc

Some basic precautions are necessary when handling your discs.

DVD Map Discs

- Do not use discs other than those intended for this product. Use only discs approved by Pioneer.
  - ❒ If you wish to use other DVD Map Discs, first check that they are compatible with this equipment and approved by Pioneer.

DVD drive and care

- Use only normal, round discs. If you insert irregular, non-round, shaped discs they may jam in the DVD drive or not play properly.

- Check all discs for cracks, scratches or warping before playing. Discs that have cracks, scratches or are warped may not play properly. Do not use such discs.
- Avoid touching the recorded (non-printed side) surface when handling the disc.
- Store discs in their cases when not in use.
- Keep discs out of direct sunlight and do not expose the discs to high temperatures.
- Do not attach labels, write on or apply chemicals to the surface of the discs.
- To clean dirt from a disc, wipe the disc with a soft cloth outward from the center of the disc.

- If the heater is used in cold weather, condensation may form on components inside the DVD drive. Condensation may cause the DVD drive to not operate properly. If you think that condensation is a problem turn off the DVD drive for an hour or so to allow the DVD drive to dry out and wipe any damp discs with a soft cloth to remove the moisture.
- Road shocks may interrupt disc playback.

DVD-Video

- With some DVD-Video discs, it may not be possible to use certain functions.
- It may not be possible to play back some DVD-Video discs.

DVD-R/-RW and CD-R/-RW

- Playback is possible only for discs which have been finalized.
- Playback of discs finalized on a personal computer may not be possible depending on the application settings and the environment. Please finalized with the correct format. (For details, contact the manufacturer of the application.)
- It may not be possible to playback discs recorded on a music CD recorder, DVD recorder or a personal computer because of disc characteristics, scratches or dirt on the disc, or dirt, condensation, etc. on the lens of this product.
- Playback of discs may become impossible in case of direct exposure to sunlight, high temperatures, or the storage conditions in the vehicle.
- Titles and other text information recorded on a disc may not be displayed by this product.
- If you insert a CD-RW/DVD-RW disc into this product, time to playback will be longer than when you insert a conventional CD/DVD or CD-R/DVD-R disc.
- Read the precautions with the package of discs before using them.
- When DVD-R/DVD-RW discs are used, playback is possible only for discs which have been recorded with the Video format (video mode). It is not possible to play back DVD-R/RW discs which have been recorded with the Video Recording format (VR mode).
- It may not be possible to play back DVD-R/DVD-RW discs which have been recorded with the Video format (video mode), because of disc characteristics, scratches or dirt on the disc, or dirt, condensation, etc. on the lens of this product.
- It is not possible to read DVD-ROM discs other than Pioneer DVD map discs or DVD-ROMs with MP3, WMA, AAC, or DivX files burned to it.
- This product can play back the disc that finalized with the following file systems (logical format);

CD: ISO9660 level 1 and level 2, Romeo and Joliet
DVD: ISO9660 level 1 and level 2, Romeo, Joliet, UDF1.02.

- When you burn a CD-R/-RW and DVD-R/-RW, make sure the total data size of the CD-R/-RW and DVD-R/-RW is greater than the amount noted below by storing dummy data or other filler information. Otherwise, the disc may not be recognized by the built-in DVD drive.
  — CD-R/-RW: 1.8 MB
  — DVD-R/-RW: 170 MB

MP3, WMA and AAC files

- WMA data can be encoded by using Windows Media Player version 7 or later.
- This unit may not operate correctly depending on the application used to encode WMA files.
- Depending on the version of Windows Media Player used to encode WMA files, album names and other text information may not be correctly displayed.
- There may be a slight delay when starting playback of WMA/AAC files encoded with image data.
- It is possible to play back multi-session compatible recorded discs.
- MP3/WMA/AAC files are not compatible with packet write data transfer.
- The maximum number of characters for the file and folder name is 64 characters, including extension (.mp3, .wma, .m4a). However the navigation system uses proportional font. Therefore, the number of the characters that you can display varies according to the width of each character.
- In case of files recorded according to the Romeo file system, only the first 64 characters can be displayed.
- The folder selection sequence for playback and other operations becomes the writing sequence used by the writing software. For this reason, the expected sequence at the time of playback may not coincide with the actual playback sequence. However, there also is some writing software which permits setting of the playback order.
- Some audio CDs contain tracks that merge into one another without a pause. When these discs are converted to MP3/WMA/AAC files and burned to a disc, the files will be played back on this player with a short pause between each one, regardless of the length of the pause between tracks on the original audio CD.
- The sound quality of MP3/WMA/AAC files generally becomes better with an increased bit rate. In order to be able to enjoy sound of a certain quality, we recommend using discs recorded with a higher bit rate.
- This unit plays back files with the filename extension (.mp3, .wma or .m4a) as a MP3/WMA/AAC file. To prevent noise and malfunctions, do not use these extensions for files other than MP3/WMA/AAC files.

MP3 additional information

- Files are compatible with the ID3 Tag Ver. 1.0, 1.1, 2.2, 2.3 and 2.4 formats for display of album (disc title), track (track title), artist (track artist) and comments. Ver. 2.x of ID3 Tag is given priority when both Ver. 1.x and Ver. 2.x exist.
- You can play back MP3 files in the frequencies from 8 kHz to 48 kHz.
- This unit is compatible with the emphasis function.
- There is no m3u playlist compatibility.
- There is no compatibility with the MP3i (MP3 interactive) or mp3 PRO formats.
- This unit can play recordings with bit rates from 8 kbps to 320 kbps.

WMA additional information

- This unit plays back WMA files encoded by Windows Media Player version 7, 7.1, 8, 9 and 10.
- You can play back WMA files in the frequencies from 8 kHz to 48 kHz.
- This unit can play recordings with bit rates from 5 kbps to 320 kbps.
- This unit doesn't support the following formats.
  — Windows Media Audio 9 Professional (5.1ch)
  — Windows Media Audio 9 Lossless
  — Windows Media Audio 9 Voice

AAC additional information

- This unit plays back AAC files encoded by iTunes® version 4.6.
- This unit plays back AAC files in the sampling frequencies from 8 kHz to 48 kHz.
- This unit can play recordings with transmission rates from 8 kbps to 320 kbps.

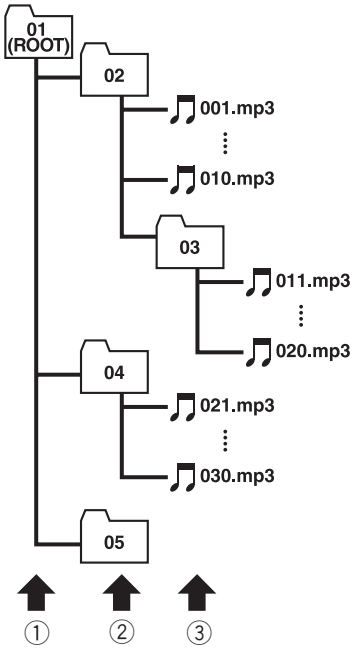
About folders and MP3/WMA/AAC files

- An outline of a disc with MP3/WMA/AAC files on it is shown below. Subfolders are shown as folders in the folder currently selected.

❒ The following figure is an example of the tier structure in the disc. The numbers in the figure indicate the order in which folder numbers are assigned and the order to be played back.

Indicates the order in which folder numbers are assigned.

Indicates each file. The number is assigned in the order of the track to be played back.



① **First tier**

② **Second tier**

③ **Third tier**

Notes:

- This unit assigns folder numbers. The user cannot assign folder numbers.
- It is not possible to check folders that do not include MP3/WMA/AAC files. (These folders will be skipped without displaying the folder number.)
- It is possible to play back up to 255 folders on one disc.

DivX video files

- This unit corresponds to DivX video format implemented in relation to DivX standards. However, it does not correspond to DivX Ultra standards.
- This unit corresponds to MP3 and AC3 audio codec.
- DivX files without video data cannot be recognized as DivX file.
- Depending on the file information composition such as the number of audio stream, there may be a slight delay in the start of playback on discs.
- Some special operation may be prohibited because of the composition of DivX files.
- DivX files downloaded only from DivX partner site are guarantee of proper operation. Unauthorized DivX file may not operate properly.
- DRM rental file cannot be operated until starting playing back.
- This unit corresponds to a DivX file display up to 1 590 minutes 43 seconds. Also, search operation beyond this time limit is prohibited.
- This unit corresponds to media with a maximum image size of 720 × 576 pixels.
- If a file contains more than 4 GB, playback is stopped on the way.
- Files with high transfer rates may not be played back correctly. The standard transfer rate is 4 Mbps for CDs and 10.08 Mbps for DVDs.
- DivX VOD file playback requires ID code of this unit to DivX VOD provider. About ID code, refer to Displaying your DivX® VOD registration code on page 128.
- Plays all versions of DivX® video (including DivX® 6) with standard playback of DivX® media files
- For more details about DivX, visit the following site:
  http://www.divx.com/

Important

- When naming a DivX video file, add the corresponding filename extension (.avi or .divx).
- This unit plays back files with the filename extension (.avi or .divx) as a DivX video file. To prevent noise and malfunctions, do not use these extensions for files other than DivX video files.

DivX subtitle files

- Srt format subtitle files with the extension ".srt" can be used.
- Only one subtitle file can be used for each DivX file. Multiple subtitle files cannot be associated.
- Subtitle files that are named with the same character string as the DivX file before the extension are associated with the DivX file. The character strings before the extension must be exactly the same. However, if there is only one DivX file and one subtitle file in a single folder, the files are associated even if the file names are not the same.
- The subtitle file must be stored in the same folder as the DivX file.
- Up to 255 subtitle files may be used. Any more subtitle files will not be recognized.
- Up to 64 characters can be used for the name of the subtitle file, including the extension. If more than 64 characters are used for the file name, the subtitle file may not be recognized.
- The character code for the subtitle file should comply with ISO-8859-1. Using characters other than ISO-8859-1 may cause the characters to be displayed incorrectly.
- The subtitles may not be displayed correctly if the displayed characters in the subtitle file include control code.
- For materials that use a high transfer rate, the subtitles and video may not be completely synchronized.
- If multiple subtitles are programmed to display within a very short time frame, such as 0.1 seconds, the subtitles may not be displayed at the correct time.

Ambient conditions for playing a disc

- At extremely high temperatures, a temperature cutout protects this product by switching it off automatically.
- Despite our careful design of the product, small scratches that do not affect actual operation may appear on the disc surface as a result of mechanical wear, ambient conditions for use or handling of the disc. This is not a sign of the malfunction of this product. Consider it to be normal wear and tear.

Using the Navigation System Correctly

⚠ WARNING

- **If liquid or foreign matter should get inside this navigation system, turn off the power immediately and consult your dealer or the nearest authorized PIONEER Service Station. Do not use the navigation system in this condition because doing so may result in a fire, electric shock, or other failure.**
- **If you notice smoke, a strange noise or smell from the navigation system, or any other abnormal signs on the LCD screen, turn off the power immediately and consult your dealer or the nearest authorized PIONEER Service Station. Using this navigation system in this condition may result in permanent damage to the system.**
- **Do not disassemble or modify this navigation system, as there are high-voltage components inside which may cause an electric shock. Be sure to consult your dealer or the nearest authorized PIONEER Service Station for internal inspection, adjustments or repairs.**

Handling the LCD screen

- When the LCD screen is subjected to direct sunlight for a long period of time, it will become very hot resulting in possible damage to the LCD screen. When not using this navigation system, avoid exposing it to direct sunlight as much as possible.
- The display unit should be used within the temperature ranges shown below.
  - Operating temperature range: +14 °F to +122 °F
  - Storage temperature range: –4 °F to +176 °F
- Do not use the LCD screen at temperatures higher or lower than the operating temperature range because the LCD screen may not operate normally and the LCD screen can be damaged.
- The LCD screen is exposed in order to increase its visibility within the vehicle. Please do not press strongly on it as this may damage it.

- Do not push the LCD screen with excessive force as this may scratch it.
- Never touch the LCD screen with anything besides your finger when operating the Touch Panel functions. The LCD screen can scratch easily. (The stylus is supplied for special calibrations. Do not use the stylus for normal operation.)

Liquid crystal display (LCD) screen

- If the LCD screen is near the vent of an air conditioner, make sure that air from the air conditioner is not blowing on it. Heat from the heater may break the LCD screen, and cool air from the cooler may cause moisture to form inside the navigation unit resulting in possible damage. Also, if the LCD screen is cooled down by the cooler, the LCD screen may become dark or the life span of the small fluorescent tube used in the LCD screen may be shortened.
- Small black dots or white dots (bright dots) may appear on the LCD screen. These are due to the characteristics of the LCD screen and do not indicate a problem with the LCD screen.
- At low temperatures, the LCD screen may be dark for a while after the power is turned on.
- The LCD screen will be difficult to see if it is exposed to direct sunlight.
- When using a cellular phone, keep the antenna of the cellular phone away from the LCD screen to prevent disruption of the video by the appearance of spots, colored stripes, etc.

Keeping the LCD screen in good condition

- When removing dust from the LCD screen or cleaning the LCD screen, first turn the system power off, then wipe with a soft dry cloth.
- When wiping the LCD screen, take care not to scratch the surface. Do not use harsh or abrasive chemical cleaners.

Small fluorescent tube

- A small fluorescent tube is used inside the display to illuminate the LCD screen.
  - The fluorescent tube should last for approximately 10 000 hours, depending on operating conditions. (Using the navigation unit at low temperatures reduces the service life of the fluorescent tube.)
  - When the fluorescent tube reaches the end of its useful life, the LCD screen will be dark and the image will no longer be projected. If this happens, consult your dealer or the nearest authorized Pioneer service station.

Route Setting Information

Route search specifications

Your navigation system sets a route to your destination by applying certain built-in rules to the map data. This section provides some useful information about how a route is set.

⚠ CAUTION

- **When a route is calculated, the route and voice guidance for the route is automatically set. Also, for day or time traffic regulations, only information about traffic regulations at the time when the route was calculated is shown. One-way streets and street closures may not be taken into consideration. For example, if a street is open during the morning only, but you arrive later, it would be against the traffic regulations so you cannot drive along the set route. When driving, please follow the actual traffic signs. Also, the system may not know some traffic regulations.**

About singular route calculation

When the calculation of only one route is set, you can search a route option by combining the following conditions.

➲ How to set the calculation conditions ➞ Page 52

For example, when "**Fast**" and "**Avoid Freeway**" ("**On**") are combined, a route that avoids freeways and has the shortest travel time will be calculated and displayed on the screen.

Condition 1: whether to put priority on distance or time

Short:
Calculate a route with the shortest distance to your destination as a priority.

Fast:
Calculate a route with the shortest travel time to your destination as a priority.

Condition 2: whether to use freeway or not

Avoid Freeway:
Calculate a route that avoids freeways. (A route using the freeway may be set if your destination is far away.)

- The system assumes that the driver deviated either intentionally or inadvertently from the route and searches for another route (intelligent rerouting). Depending on the situation, the system may search for a new route that does not return to the original one.
- The calculated route is one example of the route to your destination decided by the navigation system while taking the type of streets or traffic regulations into account. It is not necessarily an optimum route. (In some cases, you may not be able to set the streets you want to pass. If you want to pass a certain street, set the way point on that street.)
- The route set by your navigation system is based on the assumption that the driver does not know the area. Thus, streets known to local drivers, such as small streets or special roads, may not be used for the set route.
- Some route options may become the same route. If way points are set, only one route is calculated.
- Route setting is limited to the range of the disc in use.
- The destination is too far, there may be instances where the route cannot be set. (If you want to set a long-distance route going across several areas, set way points along the way.)
- During voice guidance, turns and intersections from the freeway are announced. However, some intersections, turns, and other guide points may not be announced if they are passed in rapid succession.
- It is possible that guidance may direct you off a freeway and then back on again.
- In some cases, the set route may require you to travel in the opposite direction of your current heading. In such cases, you are instructed to turn around; please do so safely and in accordance with local traffic rules.
- In some cases, guidance may direct you past your destination and then indicate a U-turn to get back to it.
- In some cases, a route may begin on the opposite side of a railway or river from your actual current location. If this happens, drive towards your destination for a while, and try route calculation again.
- In the following cases, a route that passes through an Area to Avoid may be set:
  - when your vehicle is in the Area to Avoid
  - when your destination or way points are in the Area to Avoid
  - when it is not possible to avoid doing so
- If a suitable route cannot be set in compliance with the specified detour distance, or your preference to avoid freeways, toll roads or ferry routes, the setting or parameter may be ignored.
- When there is a traffic congestion or closure ahead, if driving through the traffic congestion or closure is better than taking the detour, a detour route may not be set.
- There may be instances when the starting point and the destination point are not on the highlighted route.
- The number of traffic circle exits displayed on the screen may differ from the actual number of roads.
- If the intersection is approached in a gentle curve, the map displayed may differ from the actual road layout.

Auto Reroute

- Auto Reroute is used when you deviate more than 0.01 mile (30m) from the route.
- The Auto Reroute function does not work in the following cases:
  - when your vehicle is not on a street
  - when you are very close to your destination
  - when your vehicle is on a ferry
  - when driving on a road inside a facility
  - when driving on a traffic circle
  - when your vehicle is out of Memory area
  - when the vehicle goes out of the area stored in the disc during DVD navigation mode
  - when the vehicle goes out of the memorized area during memory navi mode
  - when driving on routes described in “Roads not used in calculations”

Route highlighting

- Once set, the route is highlighted in bright green or light blue on the map.
- The immediate vicinity of your starting point and destination may not be highlighted, and neither will areas with particularly complex road layouts. Consequently, the route may appear to be cut off on the display, but voice guidance will continue.

Roads not used in calculations

Even though displayed onscreen, the following roads are not included in route calculations.

- Stubble roads
- Walkways
- Roads for public vehicles only
- Non routable road

Tracking

- Your navigation system marks your course on the map in certain increments. This is called tracking. It is handy when you want to check a route traveled without guidance or if returning along a complex route.
- A maximum of about 145 miles (230 km) is marked and, as you travel beyond this limit, tracking marks are erased, starting with the oldest. The tracking display shows about 100 miles of vehicle tracking with white dots.

➲ Tracking can also be set to erase automatically whenever the navigation system is switched off. ➞ Page 75

Types of the Road Stored in the Disc

There are three types of roads marked on the map of this disc.

Roads included in the route guidance and roads not included

Turn by Turn Routable Roads contain full attribute data and can be used for full Route Guidance. Pioneer navigation will display full route guidance, including turn-by-turn voice directions and arrow icons.

Routable roads (routes displayed and highlighted in purple) have only basic data and can only be used to plot a navigable route. Pioneer navigation will only display a navigable route on the map (only the arrival guidance for the destination or a way point is available). Please review and obey all local traffic rules along the highlighted route. (For your safety.)

No turn-by-turn directions or arrow icons will be displayed on these roads.

When your vehicle reaches to the entrance of this road, the icon will be displayed, indicating that guidance is not available for this type of road. The icon will be indicated for the road with which the guidance is available.

The Close-up of Junction function, Auto Reroute function, Changing the view to Guide View, or Route View are not available.

Non routable roads (pink color road)

Map display is possible, but it cannot be used for route calculation. Please review and obey all local traffic rules along this route. (For your safety.)

Glossary

This glossary explains some of the terms used in this manual.

3D Hybrid sensor
The built-in sensor which enables the system to estimate your vehicle's position. A learning function increases its accuracy and its learning data can be stored in memory.

AAC
AAC is short for Advanced Audio Coding and refers to an audio compression technology standard used with MPEG 2 and MPEG 4.

Address Book
A list of locations registered manually.

Aspect ratio
This is the width-to-height ratio of a TV screen. A regular display has an aspect ratio of 4:3. Wide screen displays have an aspect ratio of 16:9, providing a bigger picture for exceptional presence and atmosphere.

Bit rate
This expresses data volume per second, or bps units (bits per second). The higher the rate, the more information is available to reproduce the sound. Using the same encoding method (such as MP3), the higher the rate, the better the sound.

Chapter
DVD titles are divided into chapters which are numbered in the same way as the chapters of a book. With DVD-Video discs featuring chapters, you can quickly find a desired scene with chapter search.

Current location
The present location of your vehicle; your current location is shown on the map by a red triangle.

Default setting
A factory setting which applies when you first switch on the system; you can change default settings to suit your own needs in the Route Options menu or the Settings menu.

Destination
A location you choose as the end point of your journey.

DivX
DivX is a popular media technology created by DivX, Inc. DivX media files contain highly compressed video with high visual quality that maintains a relatively small file size. DivX files can also include advanced media features like menus, subtitles, and alternate audio tracks. Many DivX media files are available for download online, and you can create your own using your personal content and easy-to-use tools from DivX.com.

DivX Certified
DivX Certified products are officially tested by the creators of DivX and guaranteed to play all versions of DivX video, including DivX 6.

Dolby Digital
Dolby Digital provides multi-channel audio from up to 5.1 independent channels. This is the same as the Dolby Digital surround sound system used in theaters.

DRM
This technology preserves the copyrights for digital data by limiting the number of copies that can be made for audio and video files.

DVD Map Discs
The DVD-ROM disc contain Pioneer navigation software. Map data is also recorded on the discs.

Favorite location
A frequently visited location (such as your workplace or a relative's home) that you can register to allow easy routing.

GPS
Global Positioning System. A network of satellites that provides navigation signals for a variety of purposes.

Guidance mode
The mode in which guidance is given as you drive to your destination; the system automatically switches to this mode as soon as a route has been set.

Guidance point
These are important landmarks along your route, generally intersections. The next guidance point along your route is indicated on the map by the yellow flag icon.

Home location
Your registered home location.

ID3 tag
This is a method of embedding track-related information in a MP3 file. This embedded information can include the track title, the artist's name, the album title, the music genre, the year of production, comments and other data. The contents can be freely edited using software with ID3 Tag editing functions. Although the tags are restricted to the number of characters, the information can be viewed when the track is played back.

ISO9660 format
This is the international standard for the format logic of DVD/CD-ROM folders and files. For the ISO9660 format, there are regulations for the following two levels.

Level 1:
The file name is in 8.3 format (the name consists of up to 8 characters, half-byte English capital letters, half-byte numerals and the "_" sign, with a file-extension of three characters.)

Level 2:
The file name can have up to 31 characters (including the separation mark "." and a file extension). Each folder contains less than 8 hierarchies.

Extended formats
Joliet:
File names can have up to 64 characters.
Romeo:
File names can have up to 128 characters.

JPEG
This stands for Joint Photographic Experts Group, and is an international still image compression standard.

Linear PCM (LPCM)/Pulse code modulation
This stands for linear pulse code modulation, which is the signal recording system used for music CDs and DVDs. Generally, DVDs are recorded with higher sampling frequency and bit rate than CDs. Therefore, DVDs can provide higher sound quality.

m3u
Playlists created using the "WINAMP" software have a playlist file extension (.m3u).

MP3
MP3 is short for MPEG Audio Layer 3. It is an audio compression standard set by a working group (MPEG) of the ISO (International Standards Organization). MP3 is able to compress audio data to about 1/10th the size of a conventional disc.

MPEG
This stands for Moving Pictures Experts Group, and is an international video image compression standard. Some DVDs feature digital audio compressed and recorded using this system.

Multi-angle
With regular TV programs, although multiple cameras are used to simultaneously shoot scenes, only images from one camera at a time are transmitted to your TV. Some DVDs feature scenes shot from multiple angles, letting you choose your viewing angle as desired.

Multi-audio (Multilingual dialog)
Some DVDs feature dialog recorded in multiple languages. Dialog in up to 8 languages can be recorded on a single disc, letting you choose as desired.

Multi-session
Multi-session is a recording method that allows additional data to be recorded later. When recording data on a CD-ROM, etc., all data from beginning to end is treated as a single unit or session. Multi-session is a method of recording more than 2 sessions on one disc.

Multi-subtitle
Subtitles in up to 32 languages can be recorded on a single DVD, letting you choose as desired.

Optical digital output
By transmitting audio signals in a digital signal format, the chance of sonic quality deteriorating in the course of transmission is minimized. An optical digital output is designed to transmit digital signals optically.

Packet write
This is a general term for a method of writing on CD-R, etc. at the time required for a file, just as is done with files on floppy or hard discs.

Parental lock
Some DVD-Video discs with violent or adult-oriented scenes feature parental lock which prevents children from viewing such scenes. With this kind of disc, if you set the unit's parental lock level, playback of scenes inappropriate for children will be disabled, or these scenes will be skipped.

Point of Interest (POI)
Point Of Interest; any of a range of locations stored in the data, such as railway stations, shops, restaurants, and amusement parks.

Region number
DVD players and DVD discs feature region numbers indicating the area in which they were purchased. Playback of a DVD is not possible unless it features the same region number as the DVD player.

Route setting
The process of determining the ideal route to a specific location; route setting is done automatically by the system when you specify a destination.

Set route
The route marked out by the system to your destination. It is highlighted on the map.

Title
DVD-Video discs have a high data capacity, enabling recording of multiple movies on a single disc. If, for example, one disc contains three separate movies, they are divided into title 1, title 2 and title 3. This lets you enjoy the convenience of title search and other functions.

Tracking
Dots on the map indicating the route you have traveled.

VBR
VBR is short for variable bit rate. Generally speaking CBR (constant bit rate) is more widely used. But by flexibly adjusting the bit rate according to the needs of the audio compression, it is possible to achieve compression with a priority on sound quality.

Voice guidance
The giving of directions by a recorded voice in guidance mode.

Way Point
A location that you choose to visit before your destination; a journey can be built up from multiple way points and the destination.

WMA
WMA is short for Windows Media™ Audio and refers to an audio compression technology that is developed by Microsoft Corporation.
WMA data can be encoded by using Windows Media Player version 7 or later.
Windows Media and the Windows logo are trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries.

Specifications

General

Rated power source ..... 14.4 V DC (allowable voltage range: 10.8 V to 15.1 V DC)
Grounding system ..... Negative type
Max. current consumption ..... 10.0 A
Display unit:
Dimensions (W × H × D):
DIN
Chassis ..... 178 × 50 × 160 mm (7 × 2 × 6-1/4 in.)
Nose ..... 188 × 58 × 33 mm (7-3/8 × 2-1/4 × 1-3/8 in.)
D
Chassis ..... 178 × 50 × 165 mm (7 × 2 × 6-1/2 in.)
Nose ..... 170 × 46 × 28 mm (6-3/4 × 1-3/4 × 1-1/4 in.)
Weight ..... 2.3 kg (5.1 lbs)
Hideaway unit:
Dimensions (W × H × D): ..... 180 × 30 × 140 mm
Weight ..... 0.7 kg (1.5 lbs)

Navigation

GPS Receiver:
System ..... L1, C/Acode GPS SPS (Standard Positioning Service)
Reception system ..... 8-channel multi-channel reception system
Reception frequency ... 1 575.42 MHz
Sensitivity ..... –130 dBm
Position update frequency ..... Approx. once per second
GPS antenna:
Antenna ..... Micro strip flat antenna/ right-handed helical polarization
Antenna cable ..... 5.0 m (16 ft. 5 in.)
Dimensions (W × H × D) ..... 33 × 13 × 36 mm (1-1/4 × 1/2 × 1-3/8 in.)
Weight ..... 105 g (0.23 lbs)

Display

Screen size/aspect ratio ..... 7 inch wide/16:9 (effective display area: 156 × 89 mm)
Pixels ..... 336 960 (1 440 × 234)
Type ..... TFT active matrix, transmissive type
Color system ..... NTSC
Operating temperature range ..... +14 °F to +122 °F
Storage temperature range ..... –4 °F to +176 °F

Angle adjustment ..... 50° to 110°
(Initial setting angle: 90°)

Audio

Continuous power output is 22 W per channel minimum into 4 ohms, both channels driven 50 to 15 000 Hz with no more than 5% THD.

Maximum power output..... 50 W × 4
50 W × 2 ch/4 Ω + 70 W × 1 ch/2 Ω (for subwoofer)

Load impedance ..... 4 Ω (4 Ω to 8 Ω [2 Ω for 1 ch] allowable)

Preout max output level/output impedance ..... 1.7 V/1 kΩ

Equalizer (3-Band Parametric Equalizer):

- Low
  - Frequency..... 40/80/100/160 Hz
  - Q Factor ..... 0.35/0.59/0.95/1.15 (+6 dB when boosted)
  - Gain..... ±12dB
- Mid
  - Frequency..... 200 Hz/500 Hz/1 kHz/2 kHz
  - Q Factor ..... 0.35/0.59/0.95/1.15 (+6 dB when boosted)
  - Gain..... ±12dB
- High
  - Frequency..... 3.15/8/10/12.5 kHz
  - Q Factor ..... 0.35/0.59/0.95/1.15 (+6 dB when boosted)
  - Gain..... ±12dB

Loudness contour:

- Low..... +3.5 dB (100 Hz), +3 dB (10 kHz)
- Mid ..... +10 dB (100 Hz), +6.5 dB (10 kHz)
- High ..... +11 dB (100 Hz), +11 dB (10 kHz) (volume: –30 dB)

HPF:

- Frequency..... 50/80/125 Hz
- Slope ..... –12 dB/oct

Subwoofer:

- Frequency..... 50/80/125 Hz
- Slope ..... –18 dB/oct
- Gain..... ±12dB
- Phase..... Normal/Reverse

DVD Drive

System ..... DVD-Video, Compact disc audio, MP3, WMA, AAC, DivX system

Usable discs..... DVD-Video, Compact disc, MP3, WMA, AAC, DivX

Region number 1

Signal format:

- Sampling frequency .... 44.1/48/96 kHz
- Number of quantization bits ..... 16/20/24; linear

Frequency response ..... 5 Hz to 44 000 Hz (with DVD, at sampling frequency 96 kHz)

Signal-to-noise ratio ..... 97 dB (1 kHz) (IHF-A network)
(CD: 96 dB (1 kHz) (IHF-A network))

Dynamic range ..... 95 dB (1 kHz)
(CD: 94 dB (1 kHz))

Distortion..... 0.008 % (1 kHz)

Output level:

- Video..... 1.0 Vp-p/75 Ω (±0.2 V)
- Audio ..... 1.0 V (1 kHz, 0 dB)

Number of channels ..... 2 (stereo)

MP3 decoding format ..... MPEG-1 & 2 Audio Layer 3

WMA decoding format..... Ver.9.0 L3

AAC decoding format..... MPEG-4 AAC (only encoded by iTunes)
: .m4a

DivX decoding format ..... Home Theater Ver.3, Ver.4, Ver.5.2
: .avi, .divx

FM tuner

Frequency range..... 87.9 MHz to 107.9 MHz

Usable sensitivity..... 8 dBf (0.7 μV/75 Ω, mono, S/N: 30 dB)

Signal-to-noise ratio ..... 75 dB (IHF-A network)

Distortion..... 0.3 % (at 65 dBf, 1 kHz, stereo)
0.1 % (at 65 dBf, 1 kHz, mono)

Frequency response ..... 30 Hz to 15 000 Hz (±3 dB)

Stereo separation ..... 45 dB (at 65 dBf, 1 kHz)

AM tuner

Frequency range..... 530 kHz to 1 710 kHz (10 kHz)

Usable sensitivity..... 18 μV (S/N: 20 dB)

Signal-to-noise ratio ..... 65 dB (IHF-A network)

Note:

- Specifications and the design are subject to possible modifications without notice due to improvements.

Display Information

*1: If you touch "**Restore Factory Settings**", the registered POI Shortcuts return to the default or factory settings.
*2: If you touch "**Restore Factory Settings**", the setting value return to the default or factory settings.

NAVI MENU

Destination

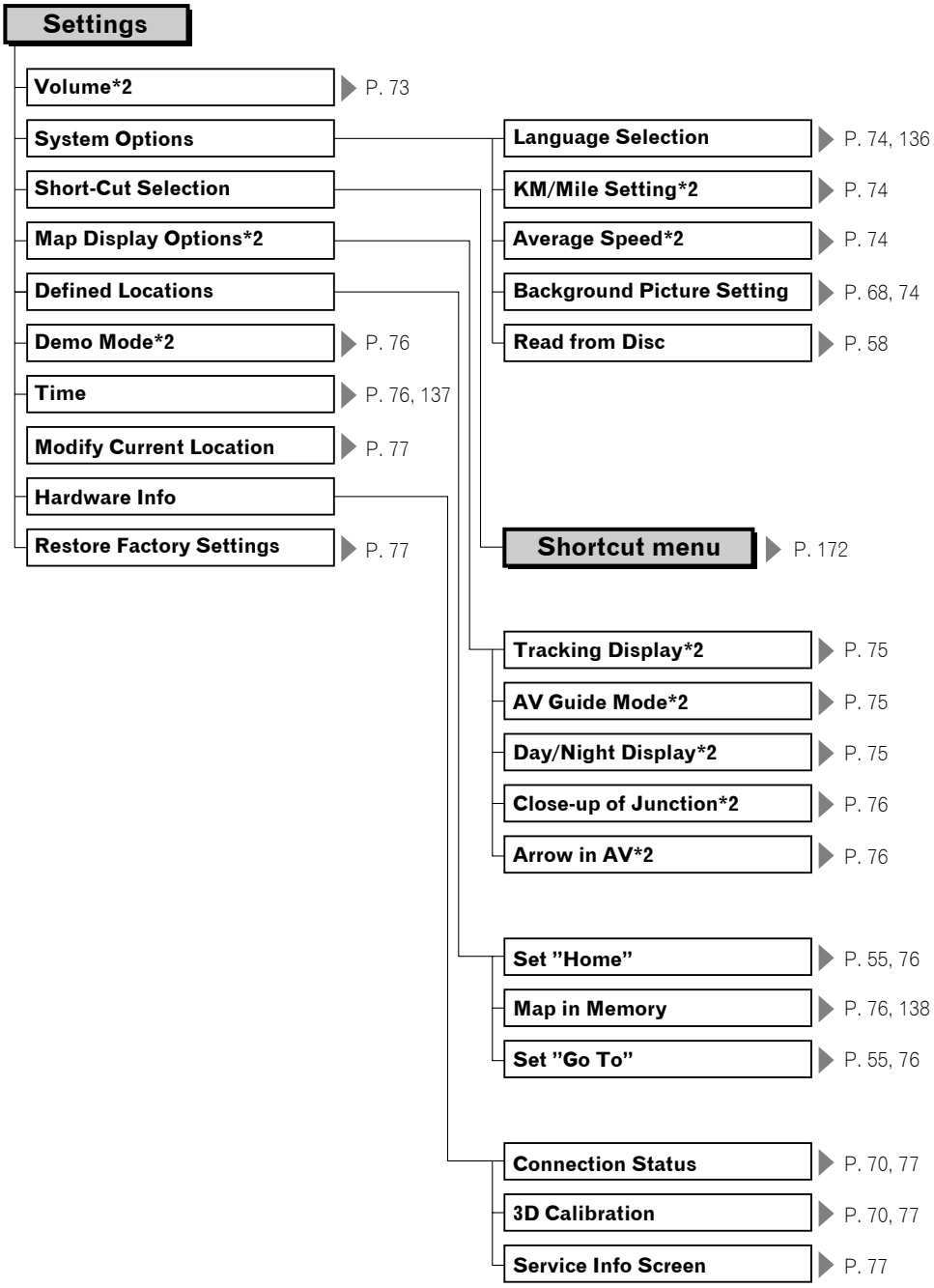
- **Address Search** ▶ P. 29
- **Return Home** ▶ P. 45, 55
- **Go to** ▶ P. 45, 55
- **POI Search** ▶ P. 43
- **Vicinity Search*1** ▶ P. 44
- **Address Book** ▶ P. 45, 56
- **Destination History** ▶ P. 45, 56
- **Freeway Search** ▶ P. 45
- **Telephone Search** ▶ P. 45
- **Cancel Route** ▶ P. 46

Info/Traffic

- **Traffic On Route** ▶ P. 60
- **Traffic Events** ▶ P. 59
- **Traffic Flow*2** ▶ P. 61
- **Traffic Settings*2** ▶ P. 62
- **XM Status** ▶ P. 65
- **Stock Info** ▶ P. 63
- **Set My Favorites** ▶ P. 64
- **My Favorites** ▶ P. 64
- **Emergency Info** ▶ P. 65
- **Overlay POI*1** ▶ P. 50

Route Options

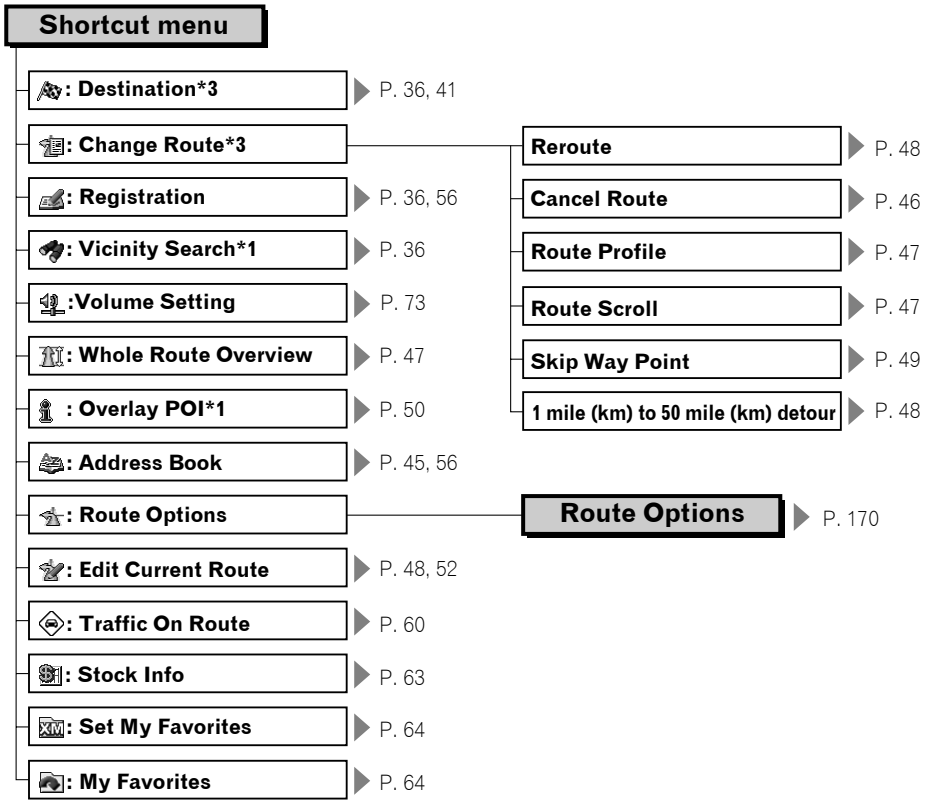
- **Edit Current Route** ▶ P. 48, 52
- **View Current Route** ▶ P. 47, 52
- **Recalculate** ▶ P. 52
- **Number of Routes*2** ▶ P. 52
- **Route Condition*2** ▶ P. 52
- **Avoid Freeway*2** ▶ P. 52
- **Avoid Ferry*2** ▶ P. 52
- **Avoid Toll Road*2** ▶ P. 53
- **Designate Areas to Avoid** ▶ P. 49


Settings
Volume*2
P. 73
System Options
Language Selection
P. 74, 136
Short-Cut Selection
KM/Mile Setting*2
P. 74
Map Display Options*2
Average Speed*2
P. 74
Defined Locations
Background Picture Setting
P. 68, 74
Demo Mode*2
P. 76
Read from Disc
P. 58
Time
P. 76, 137
Modify Current Location
P. 77
Hardware Info
Restore Factory Settings
P. 77
Shortcut menu
P. 172
Tracking Display*2
P. 75
AV Guide Mode*2
P. 75
Day/Night Display*2
P. 75
Close-up of Junction*2
P. 76
Arrow in AV*2
P. 76
Set "Home"
P. 55, 76
Map in Memory
P. 76, 138
Set "Go To"
P. 55, 76
Connection Status
P. 70, 77
3D Calibration
P. 70, 77
Service Info Screen
P. 77

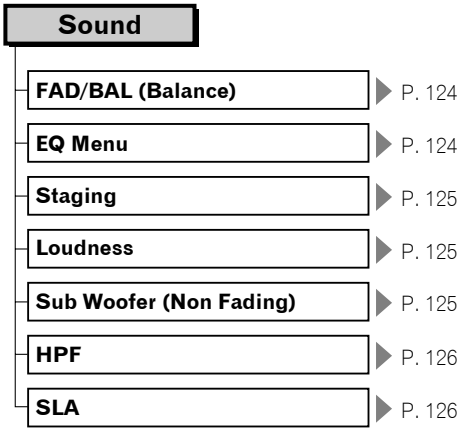
Shortcut menu

- ❒ The shortcuts displayed onscreen can be changed. The shortcuts described here are those that can be selected with the system as default setting.
- ❒ Items marked with an asterisk (*3) cannot be removed from the shortcut menu.

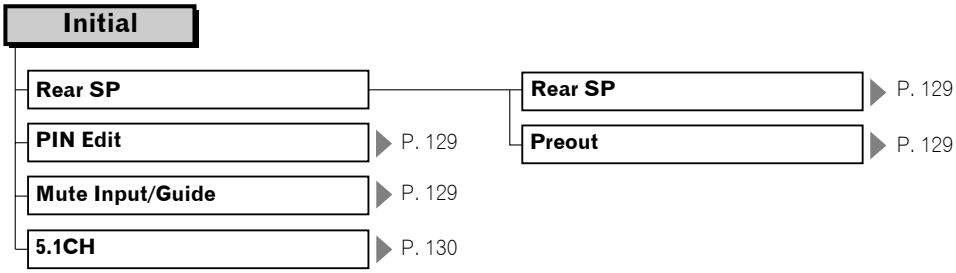
➲ Changing a shortcut ➞ Page 74



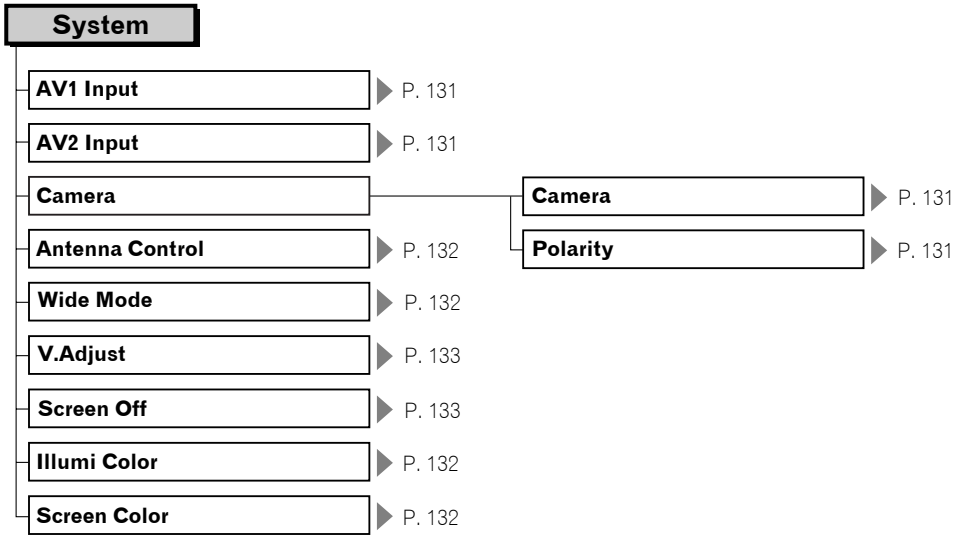
Sound menu



Initial menu



System menu


System
AV1 Input
P. 131
AV2 Input
P. 131
Camera
Camera
P. 131
Polarity
P. 131
Antenna Control
P. 132
Wide Mode
P. 132
V.Adjust
P. 133
Screen Off
P. 133
Illumi Color
P. 132
Screen Color
P. 132

Function menu

DVD-Video

Function

- Repeat — P. 83
- L/R Select — P. 83
- DVD/Divx Setup — P. 126

CD/ROM

Function

- Repeat — P. 87
- Random — P. 87
- Scan — P. 87

DivX

Function

- Repeat — P. 88
- DVD/Divx Setup — P. 126

RADIO

Function

- BSM — P. 92
- Local — P. 92

M-DVD

Function

- Repeat — P. 93
- Random — P. 93
- Scan — P. 93

USB

Function

- Repeat — P. 95
- Random — P. 95
- Scan — P. 95

XM

Function

- Memo — P. 100

SIRIUS

Function

- Memo — P. 103
- Game Alert — P. 104
- Game Info — P. 104

BT-TEL

Function

- Phone Connect — P. 109
- Phone Register — P. 111
- Phonebook Transfer — P. 111
- Phonebook Name View — P. 112
- Clear Memory — P. 113
- Auto Answer — P. 114
- Refuse All Calls — P. 114
- Ring Tone — P. 114
- Auto Connect — P. 114
- Echo Cancel — P. 114

iPod

Function

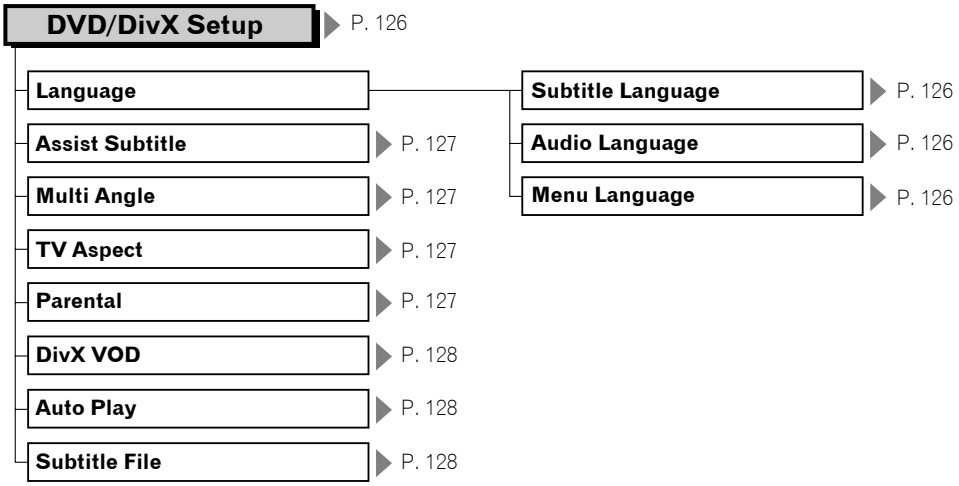
- **Repeat** P. 117
- **Shuffle** P. 117
- **Wide Screen** P. 117
- **iPod Charge** P. 117

BT-AUDIO

Function

- **Connection Open** P. 119
- **Disconnect** P. 119
- **Device Info** P. 119

DVD/DivX Setup menu



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